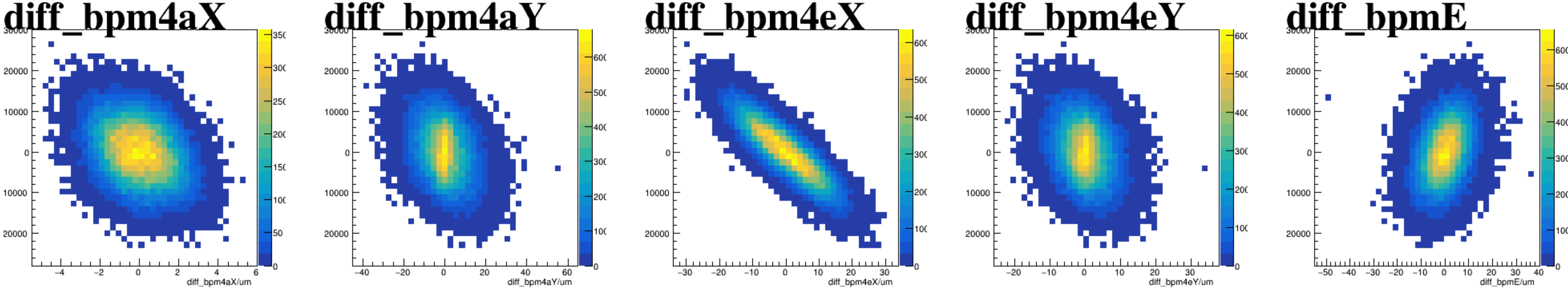
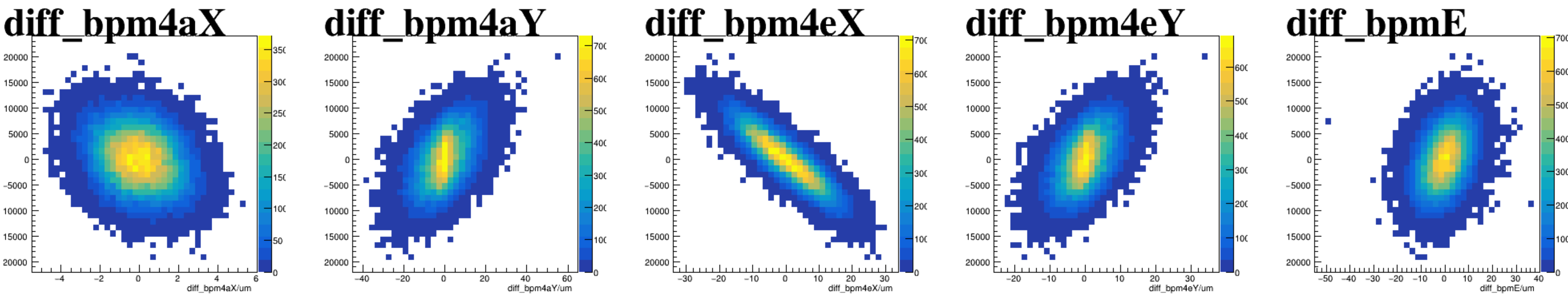


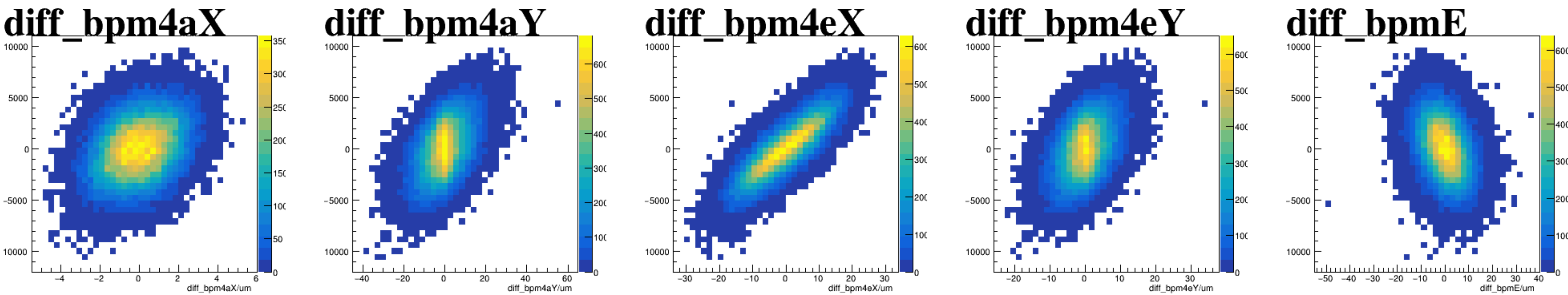
asym_sam2



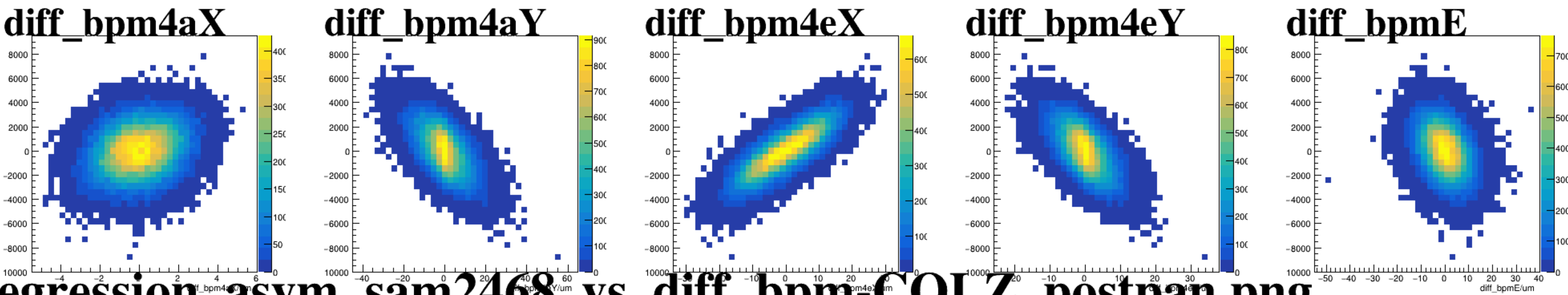
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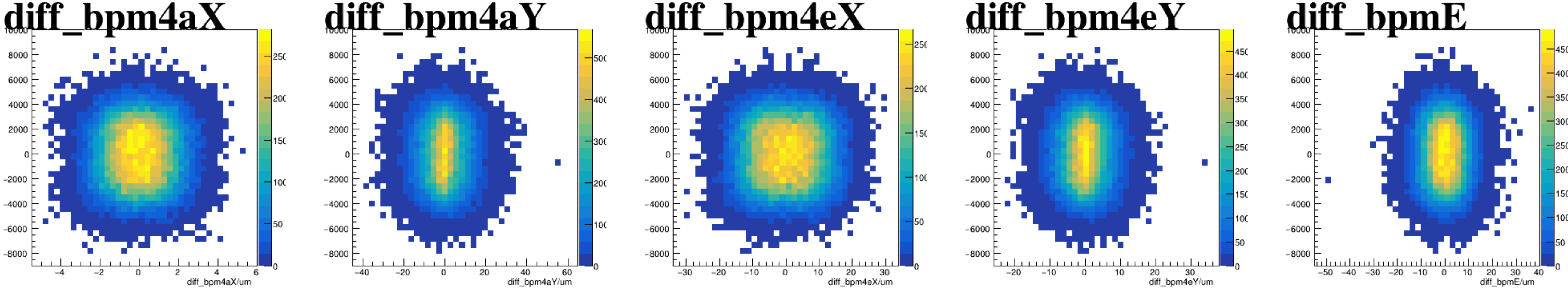
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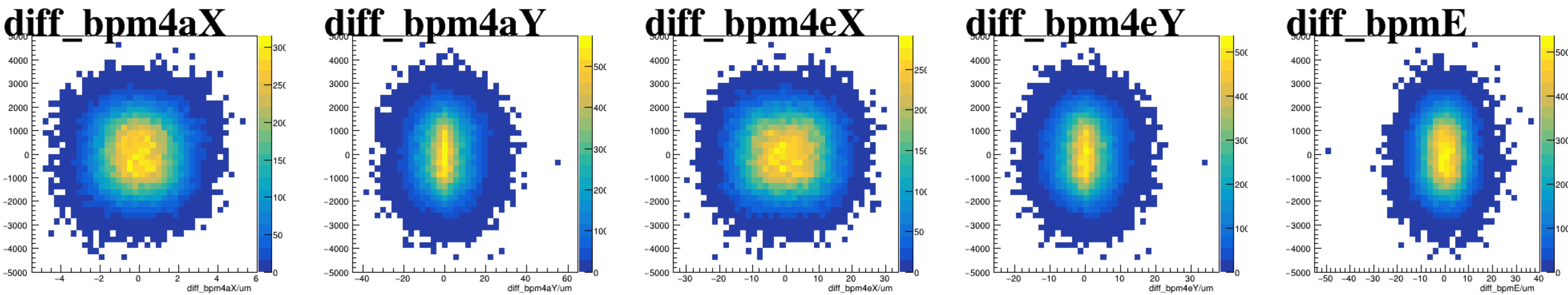
asym_sam8



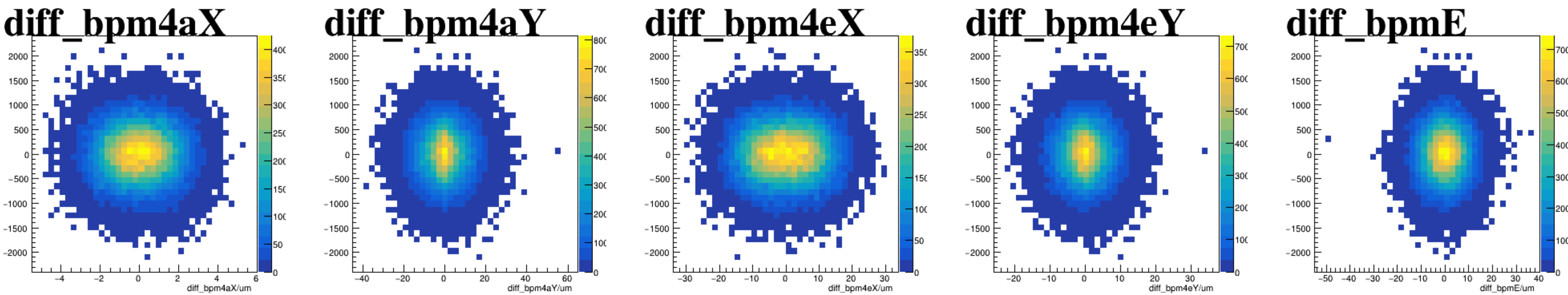
reg_asym_sam2



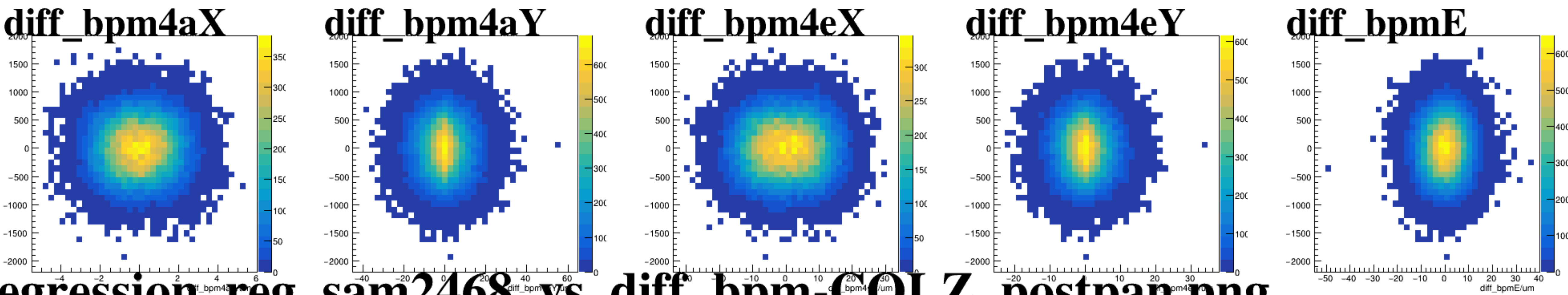
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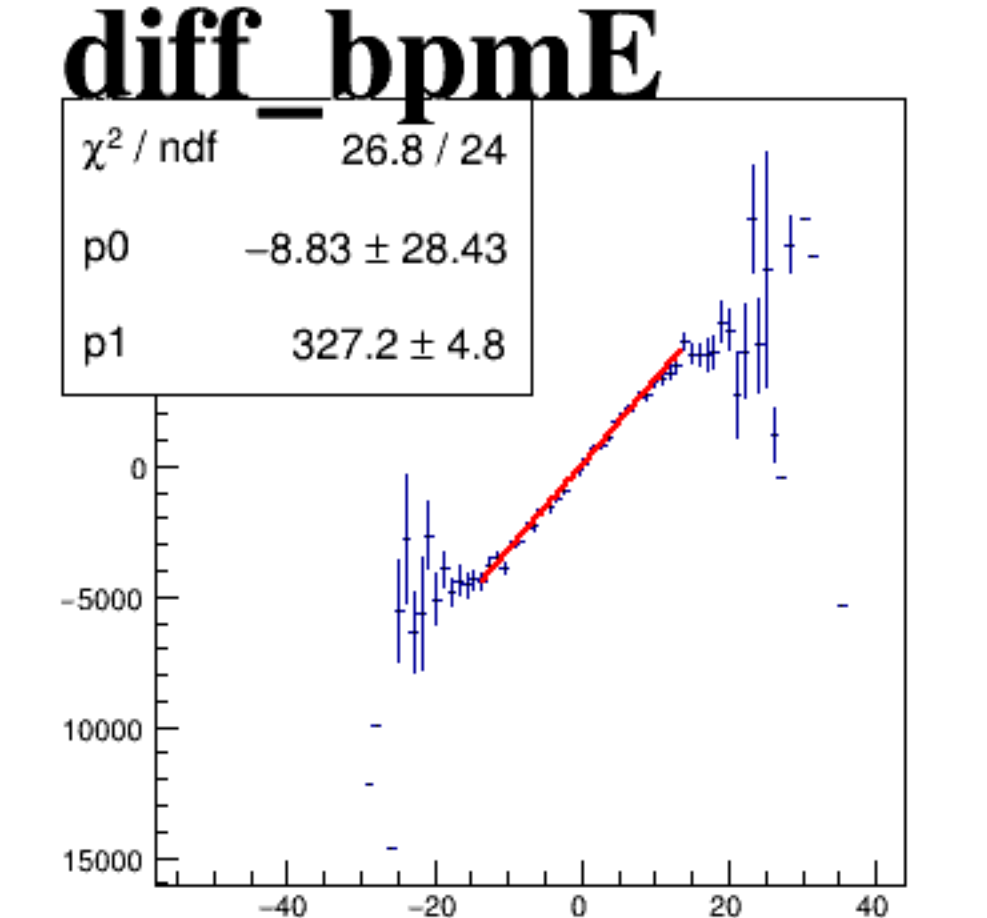
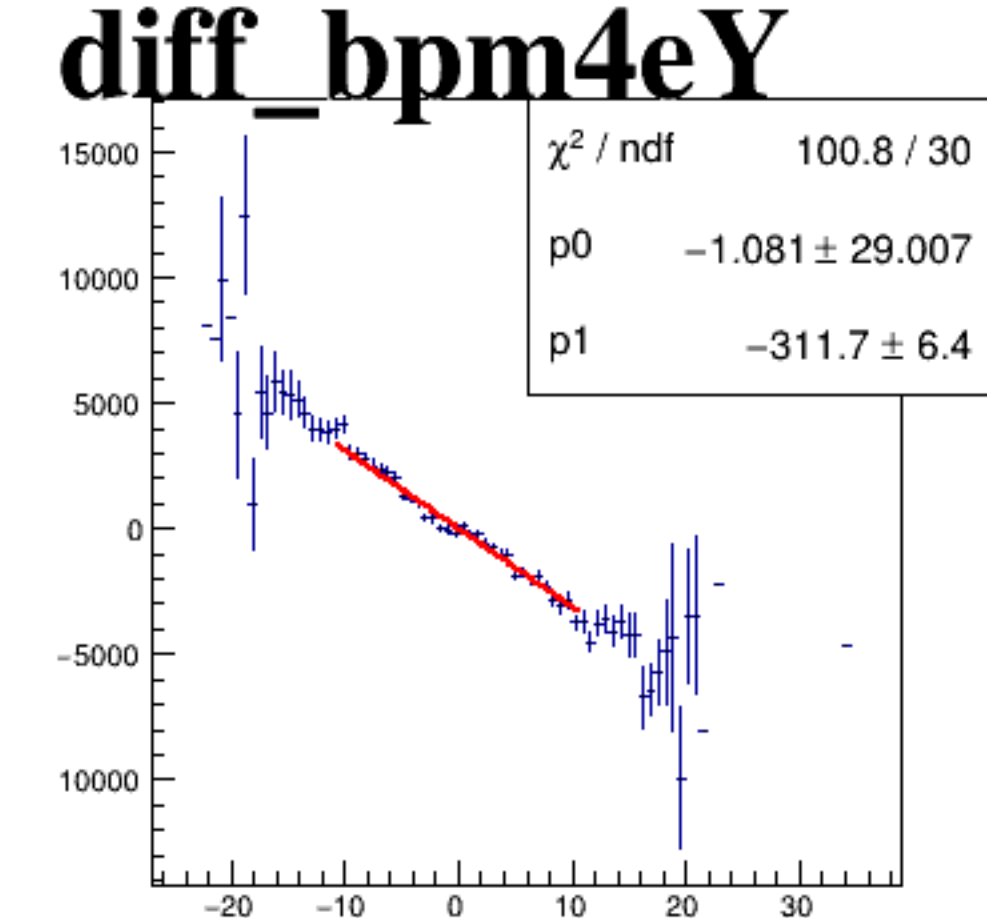
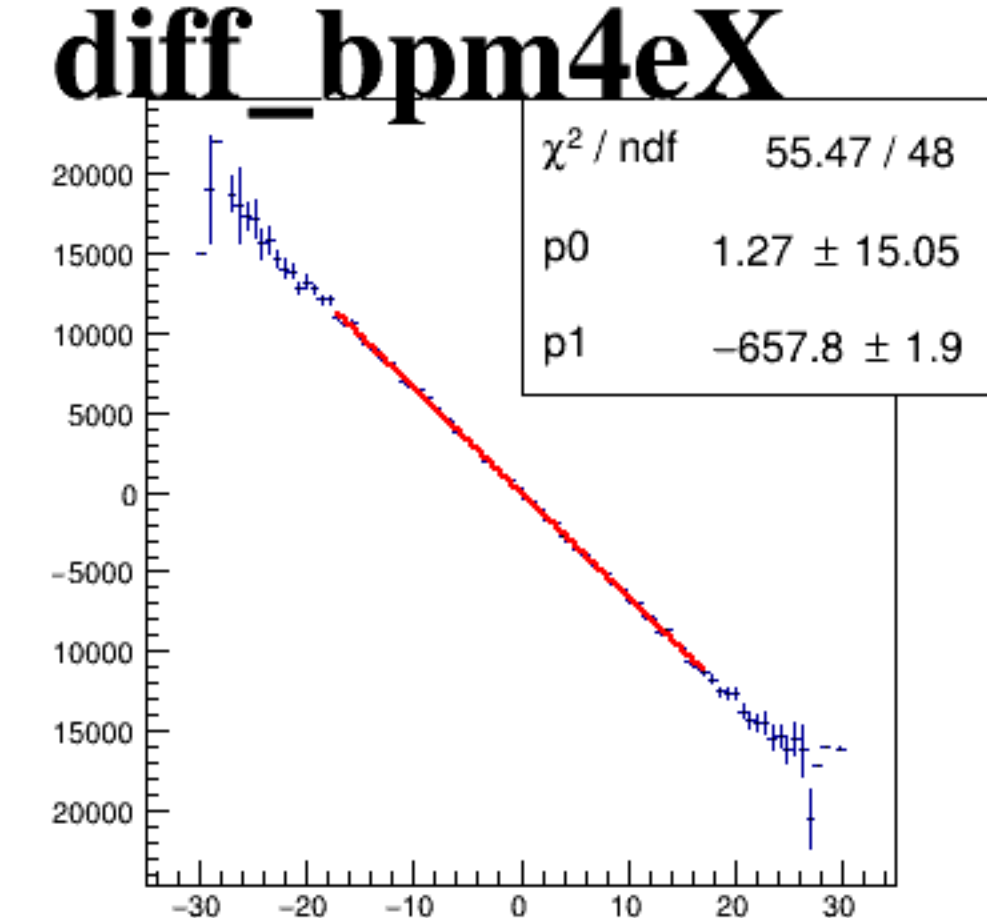
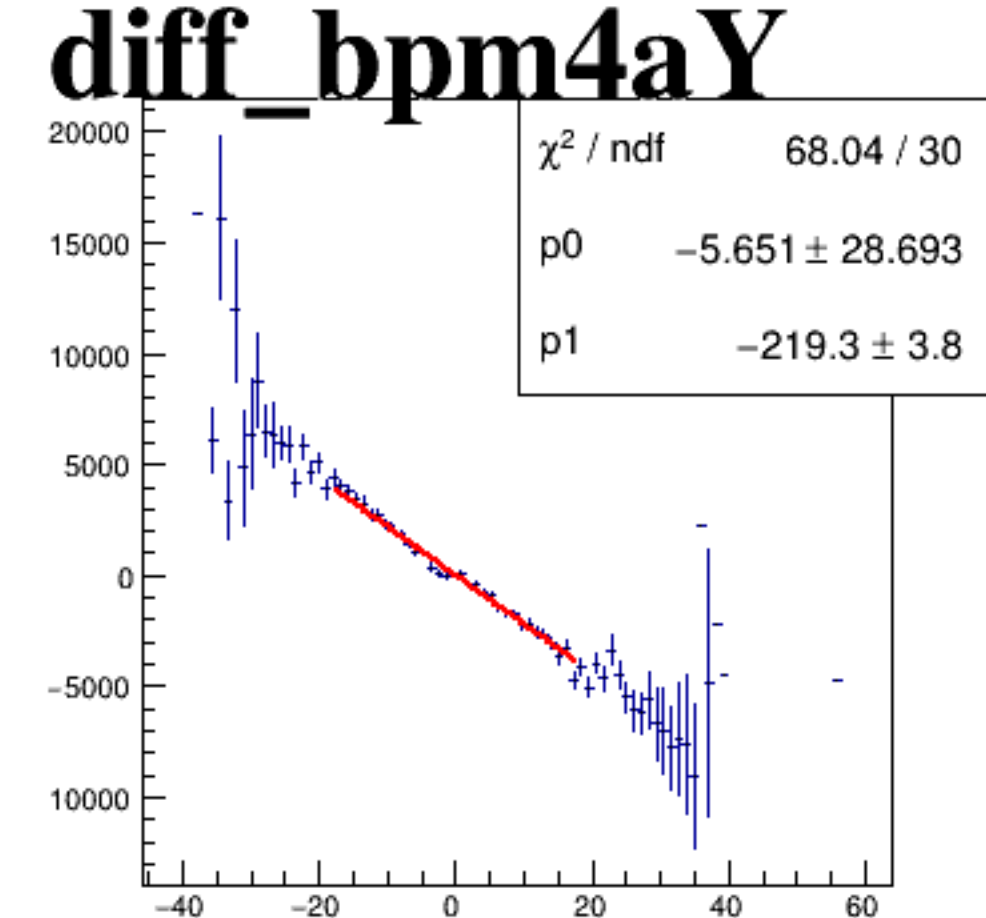
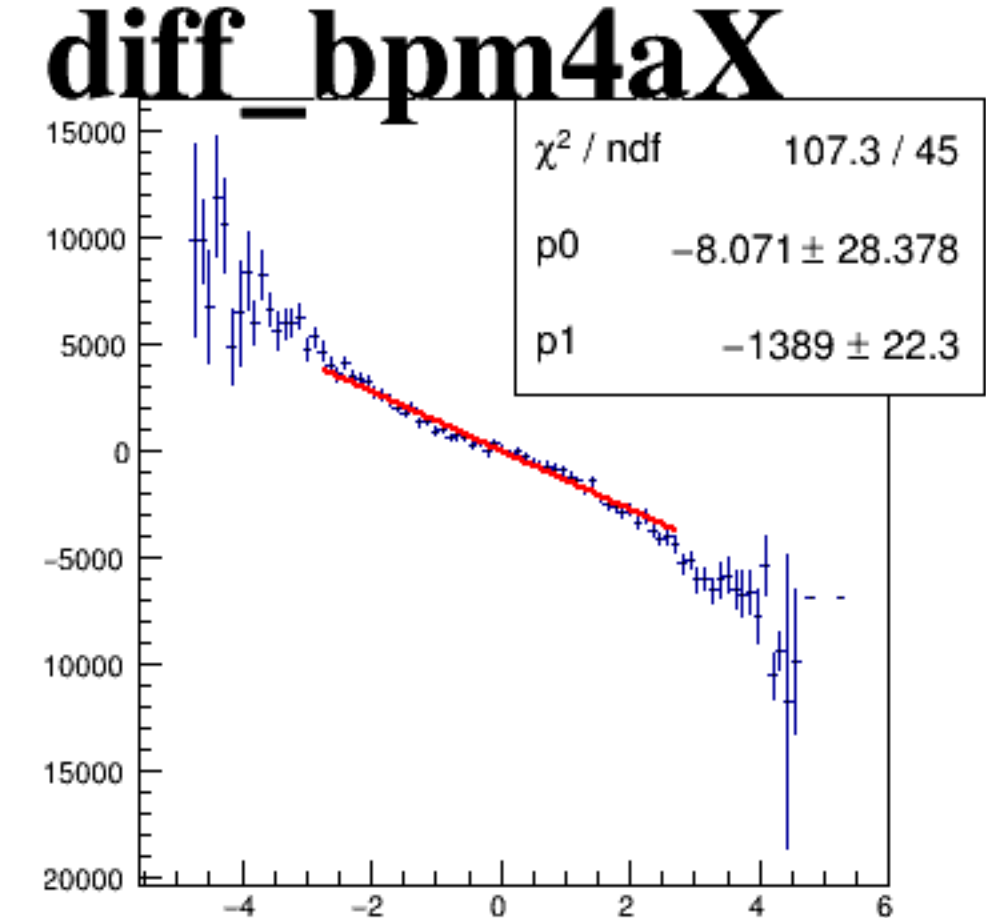
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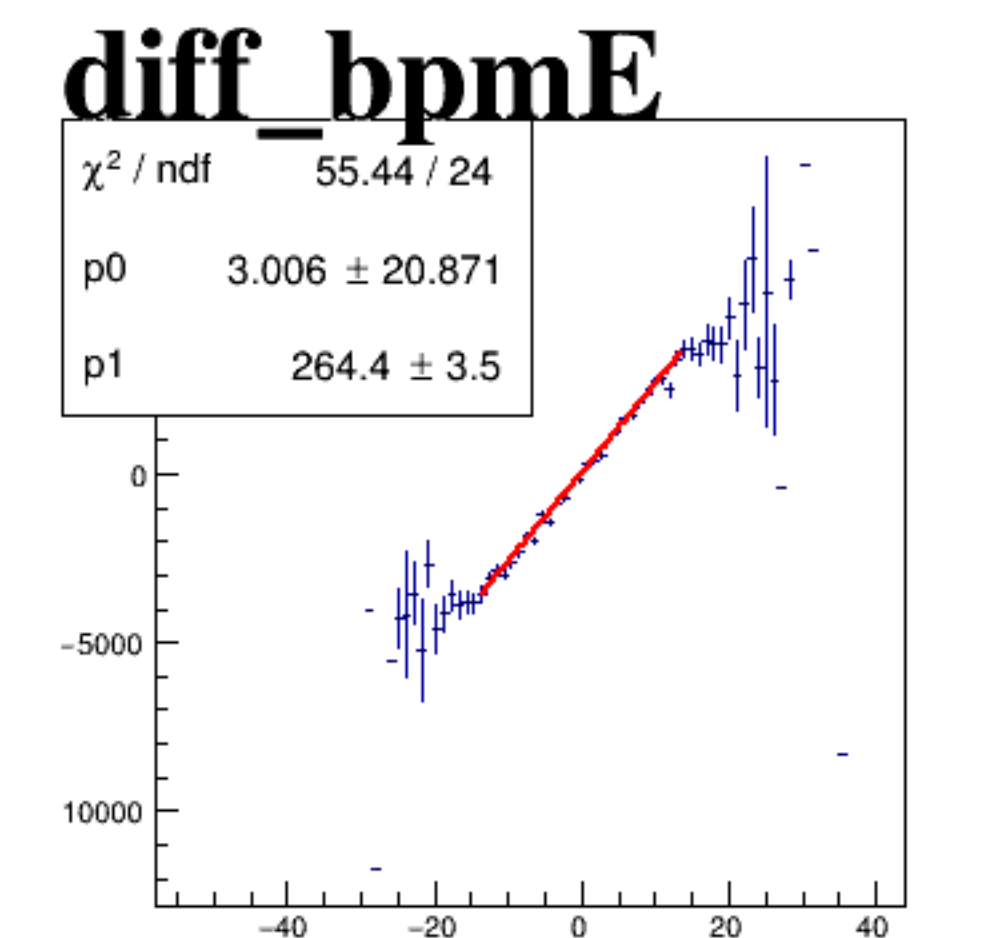
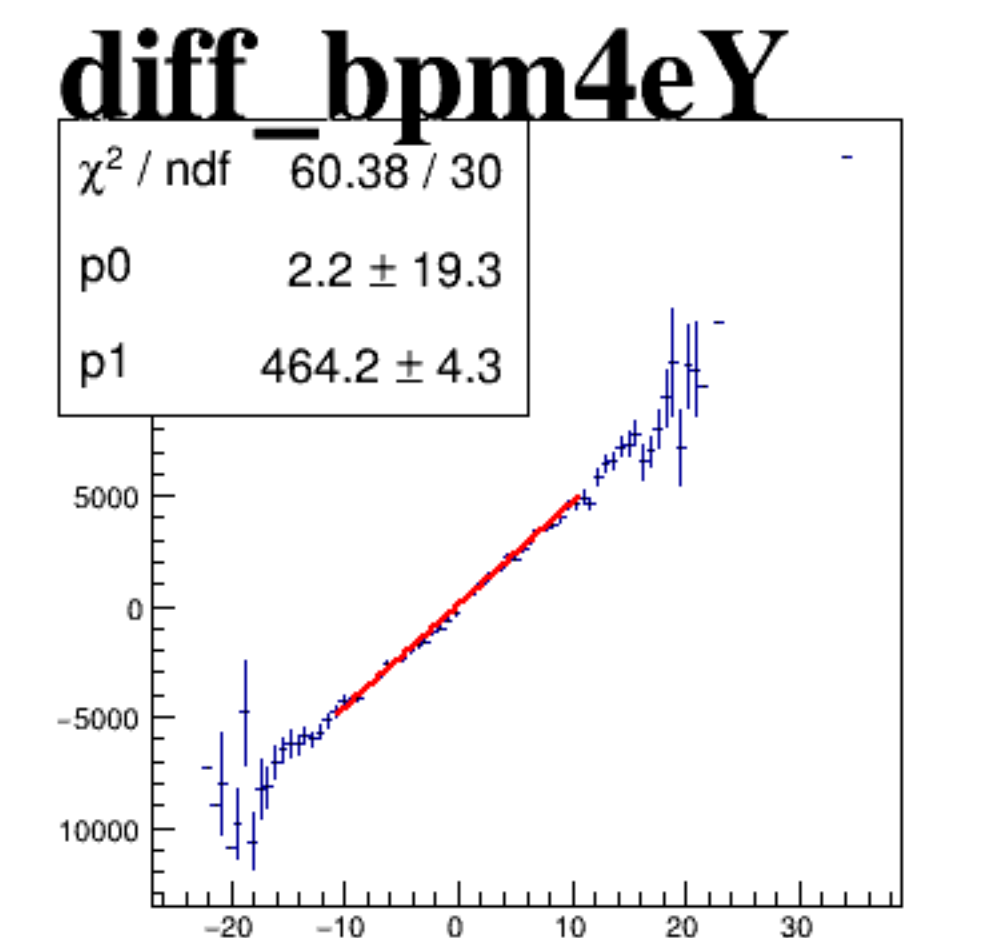
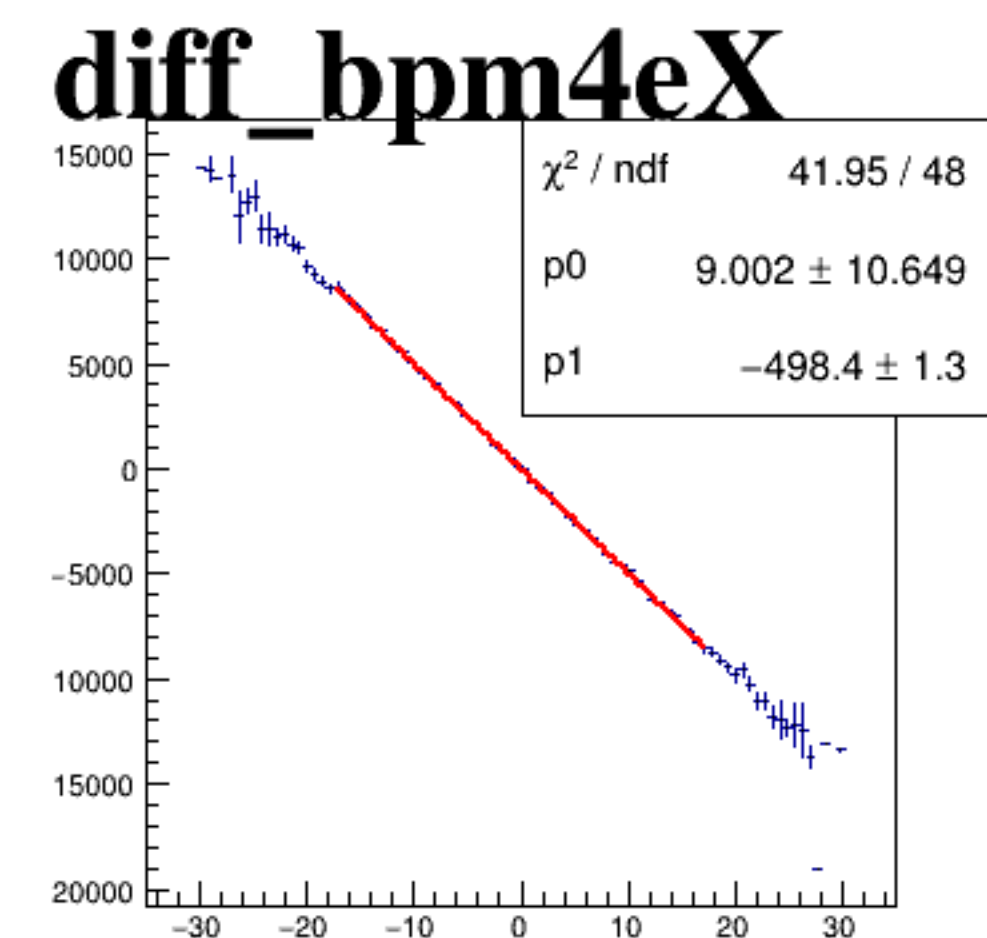
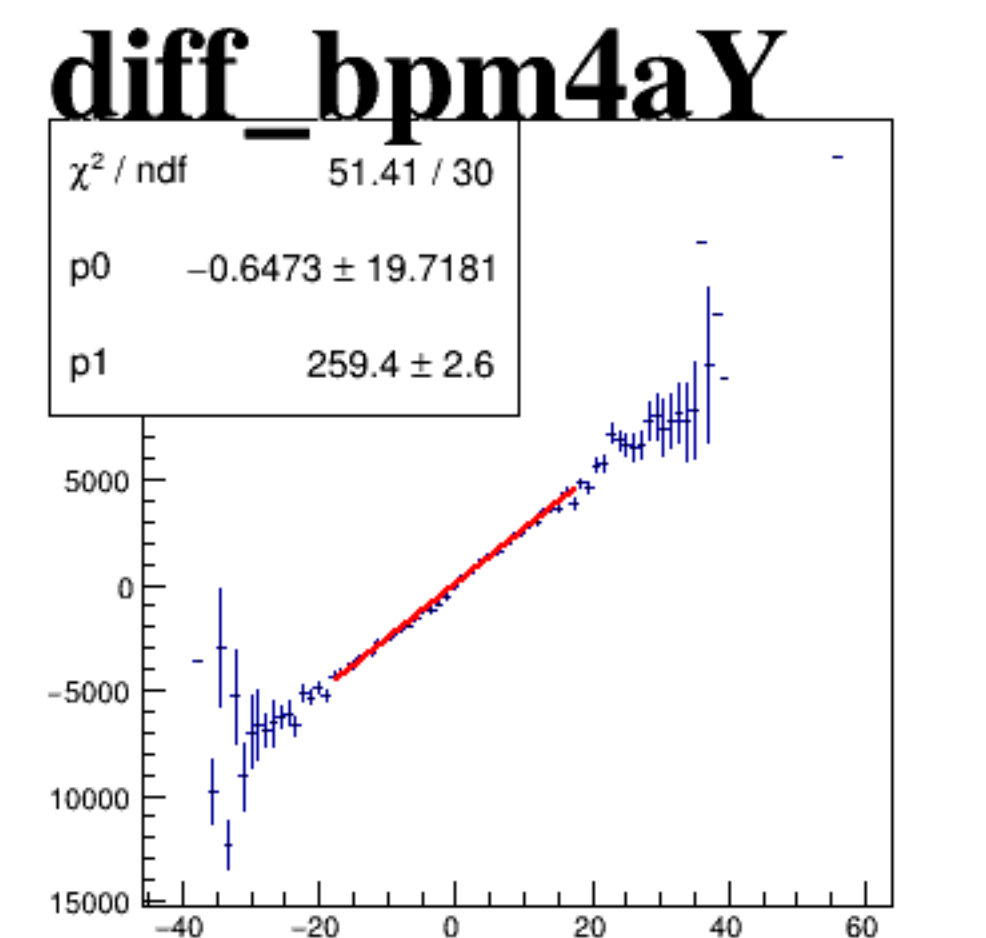
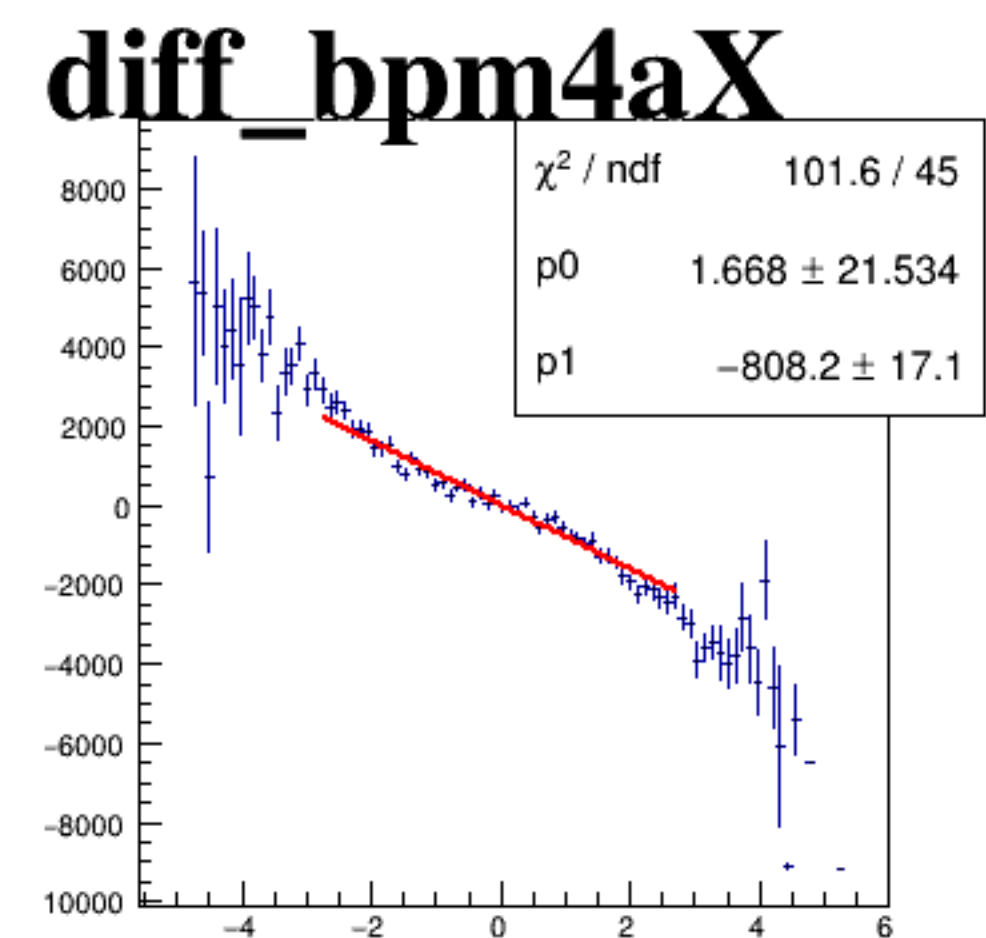
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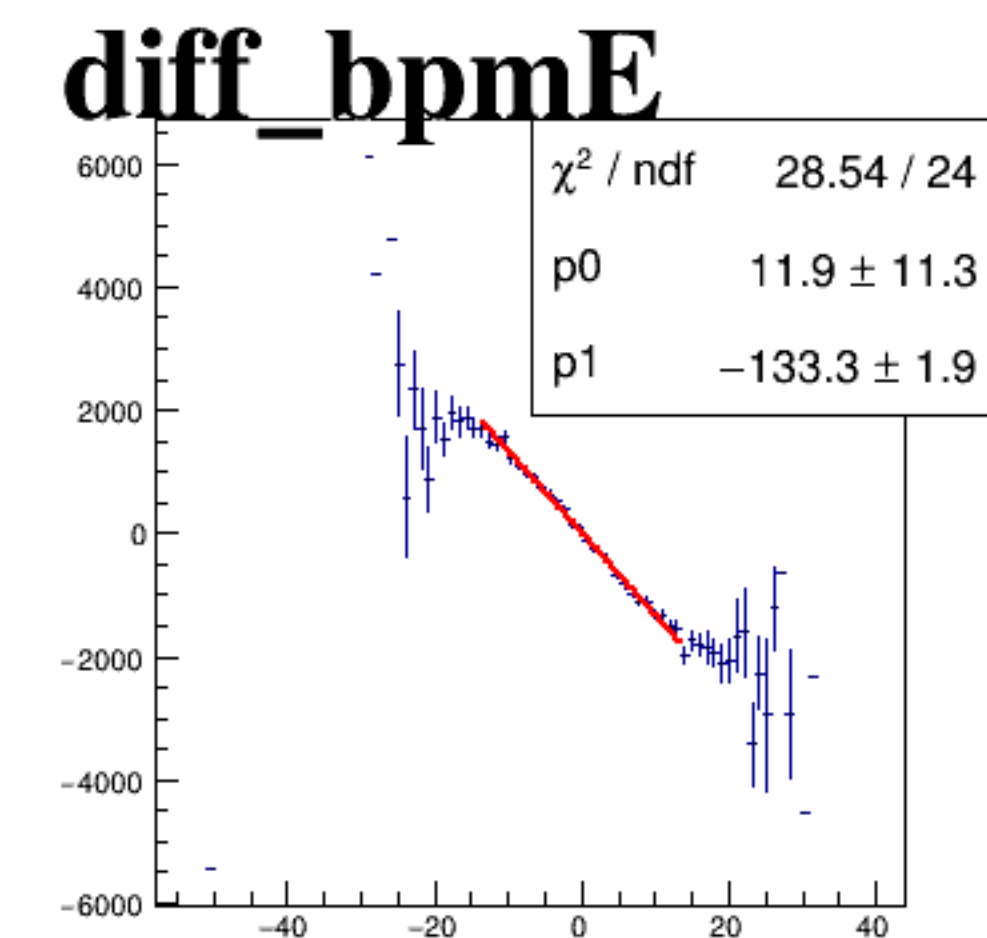
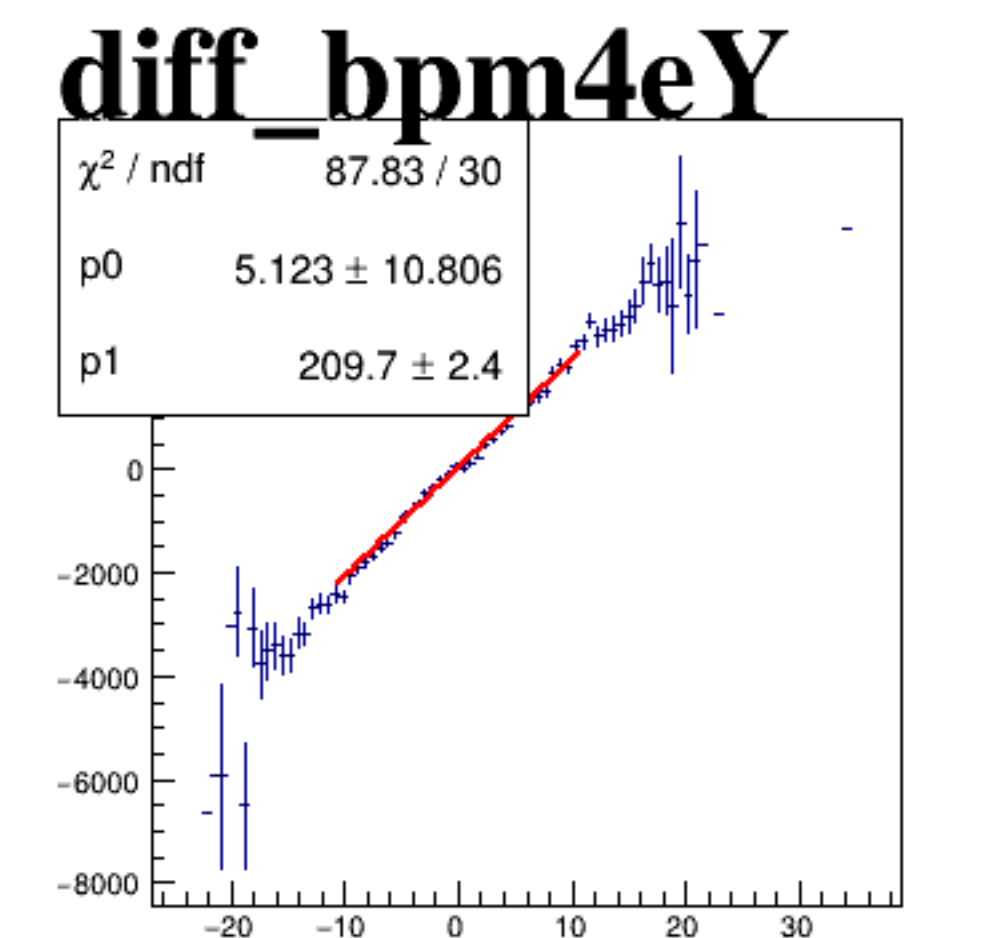
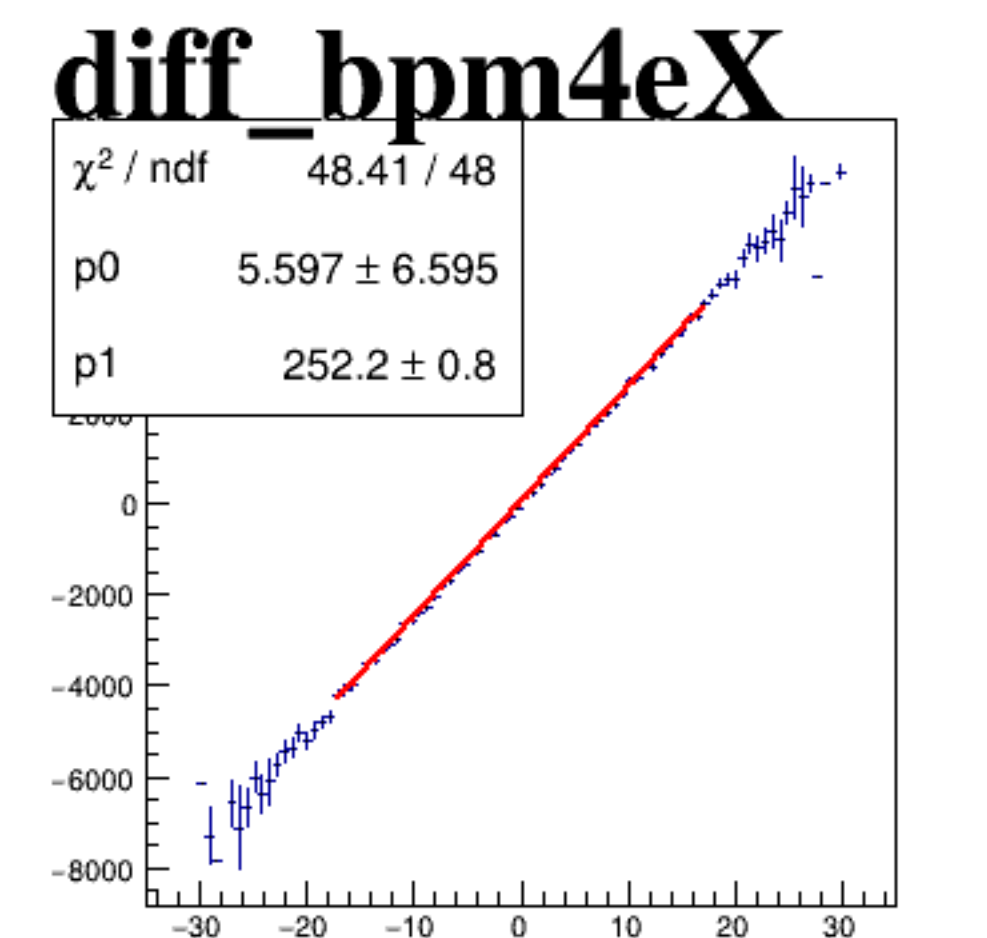
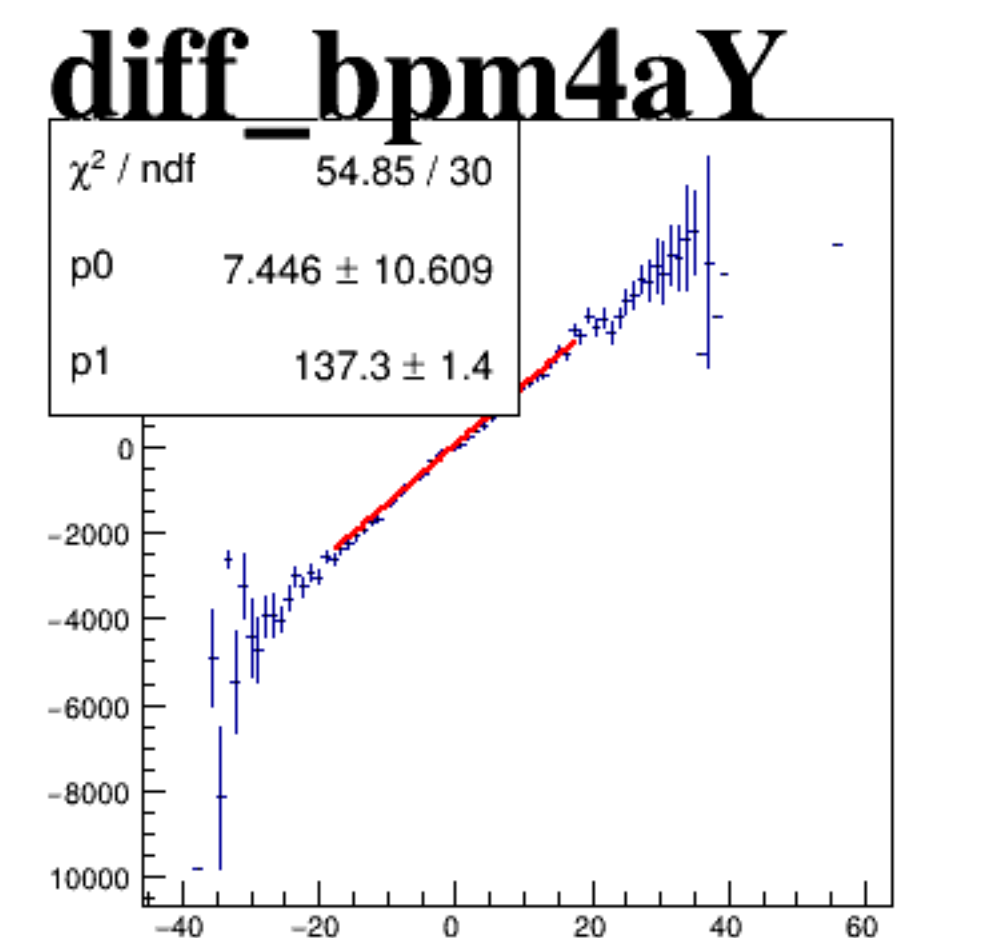
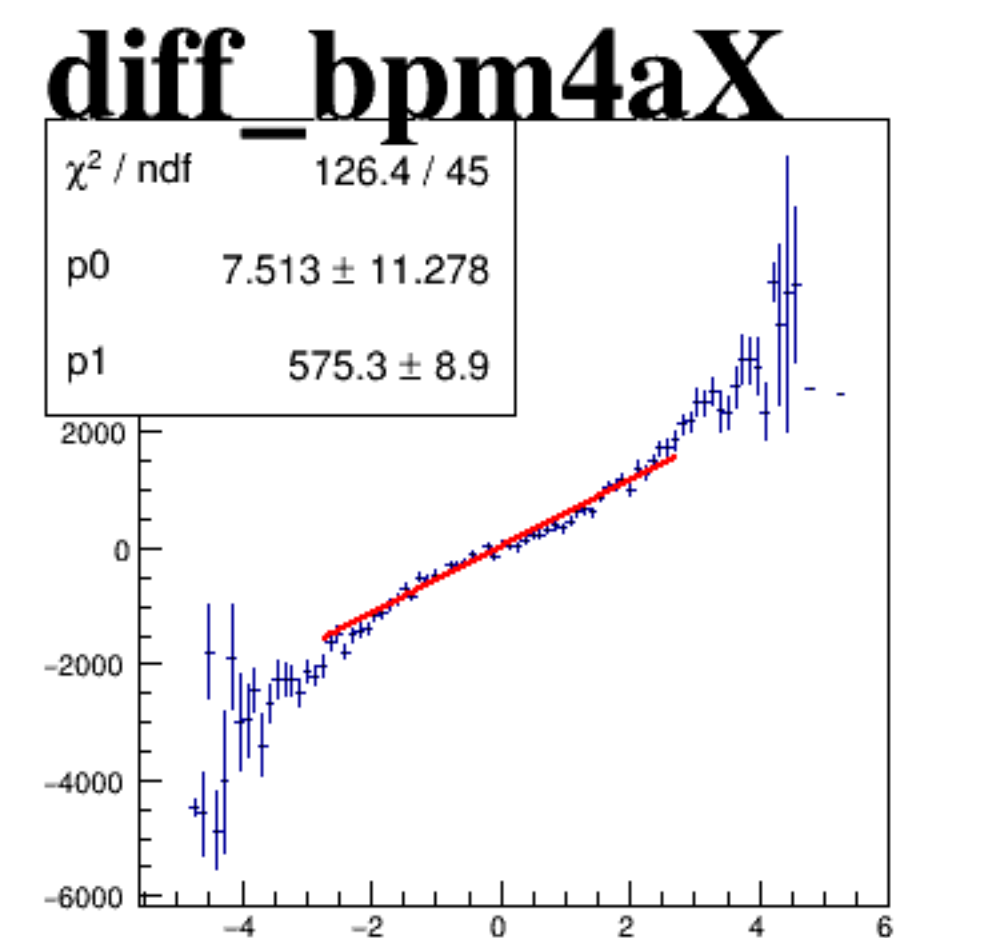
asym_sam2



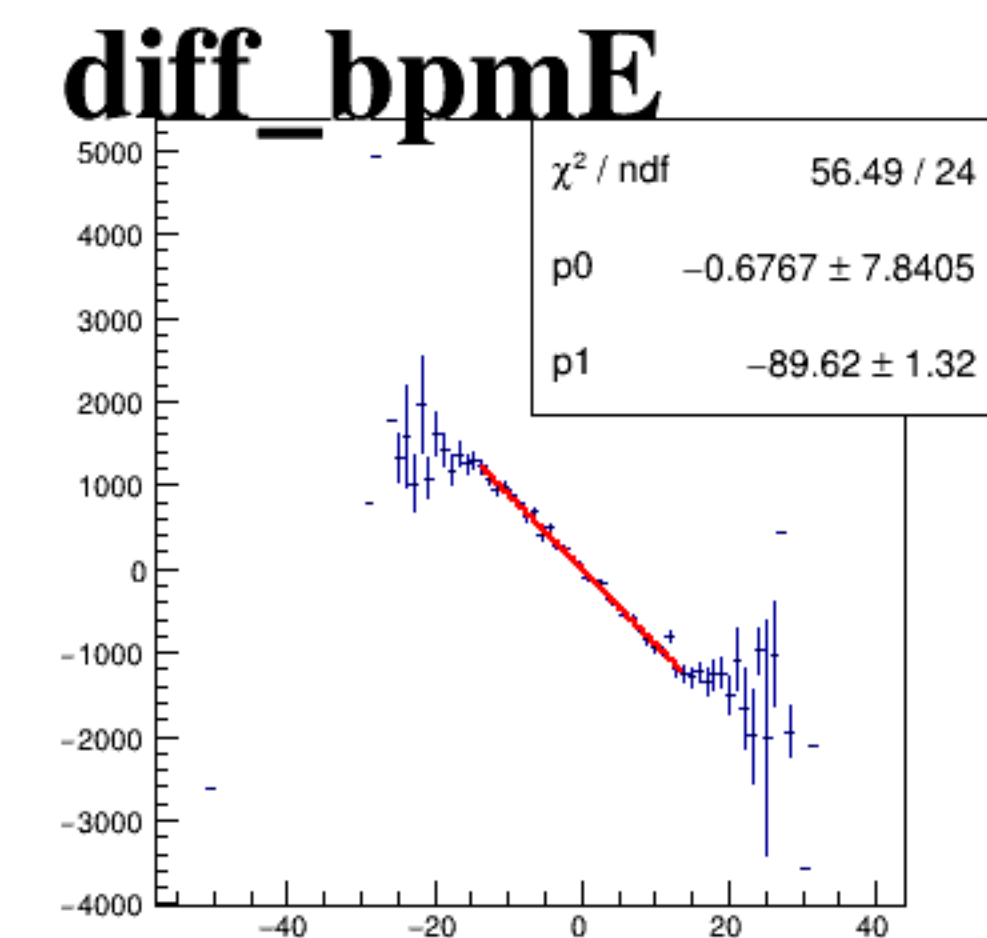
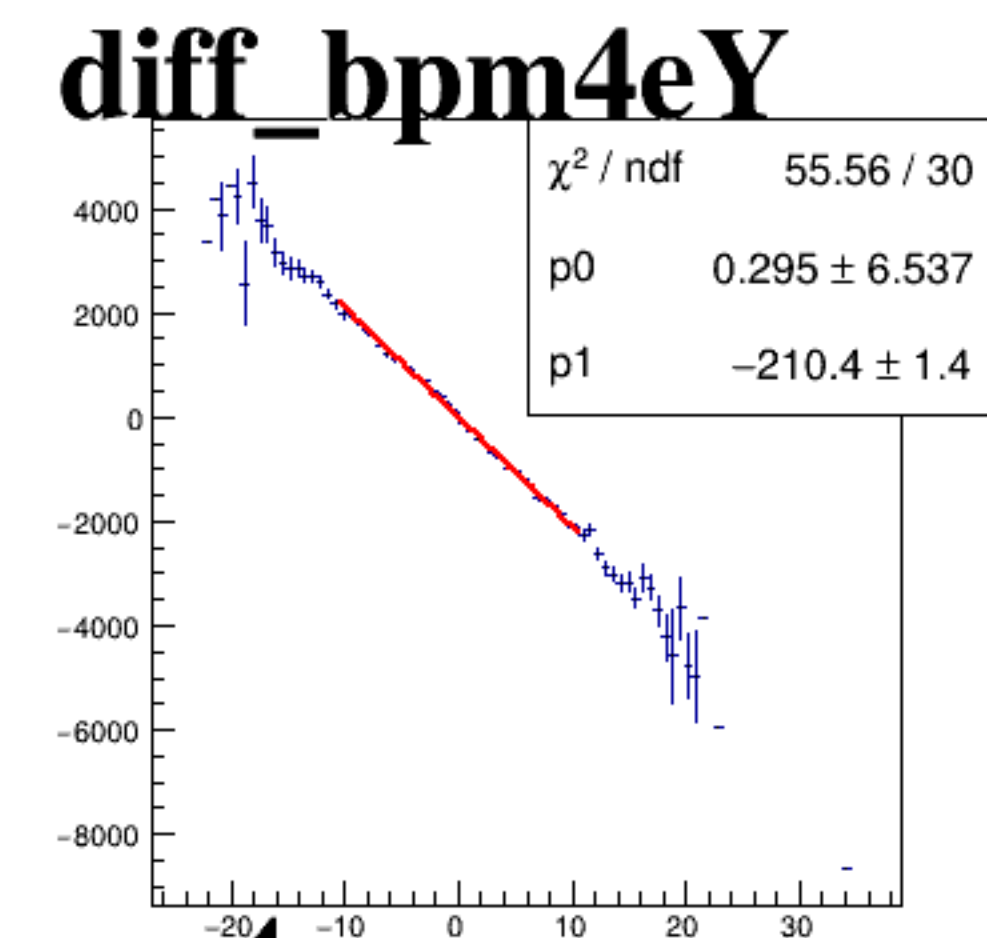
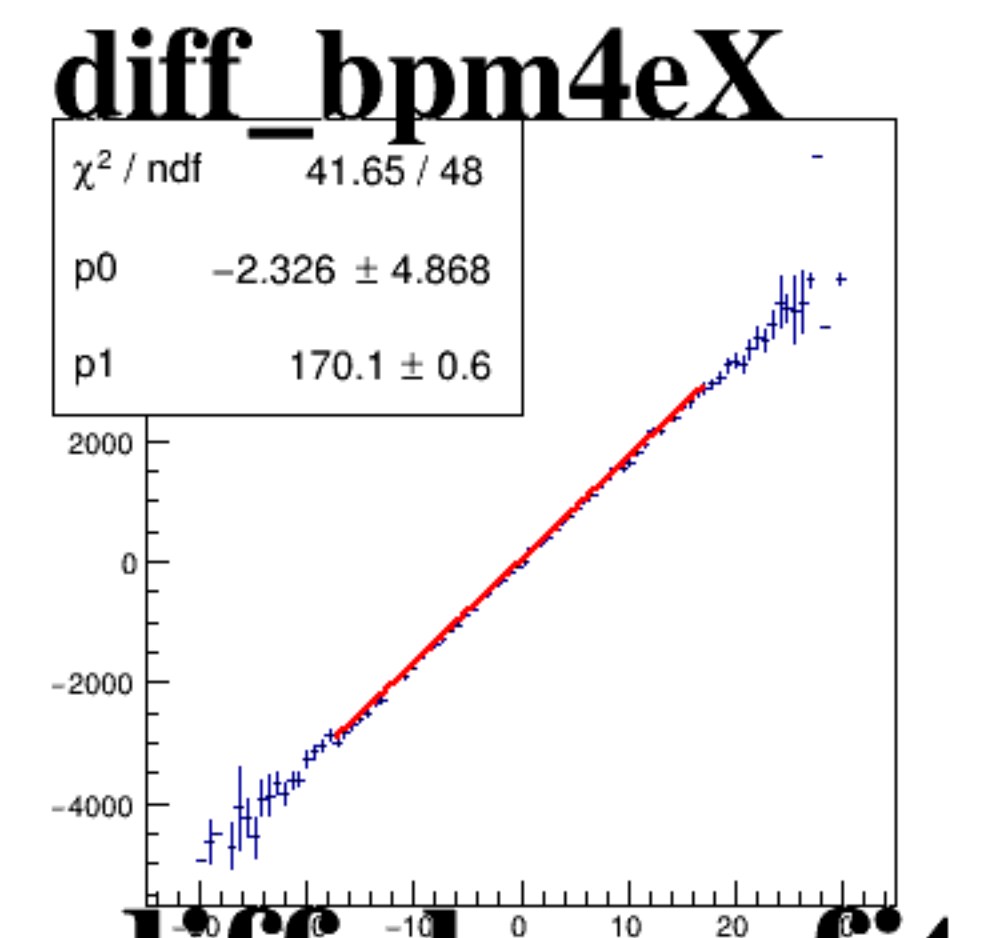
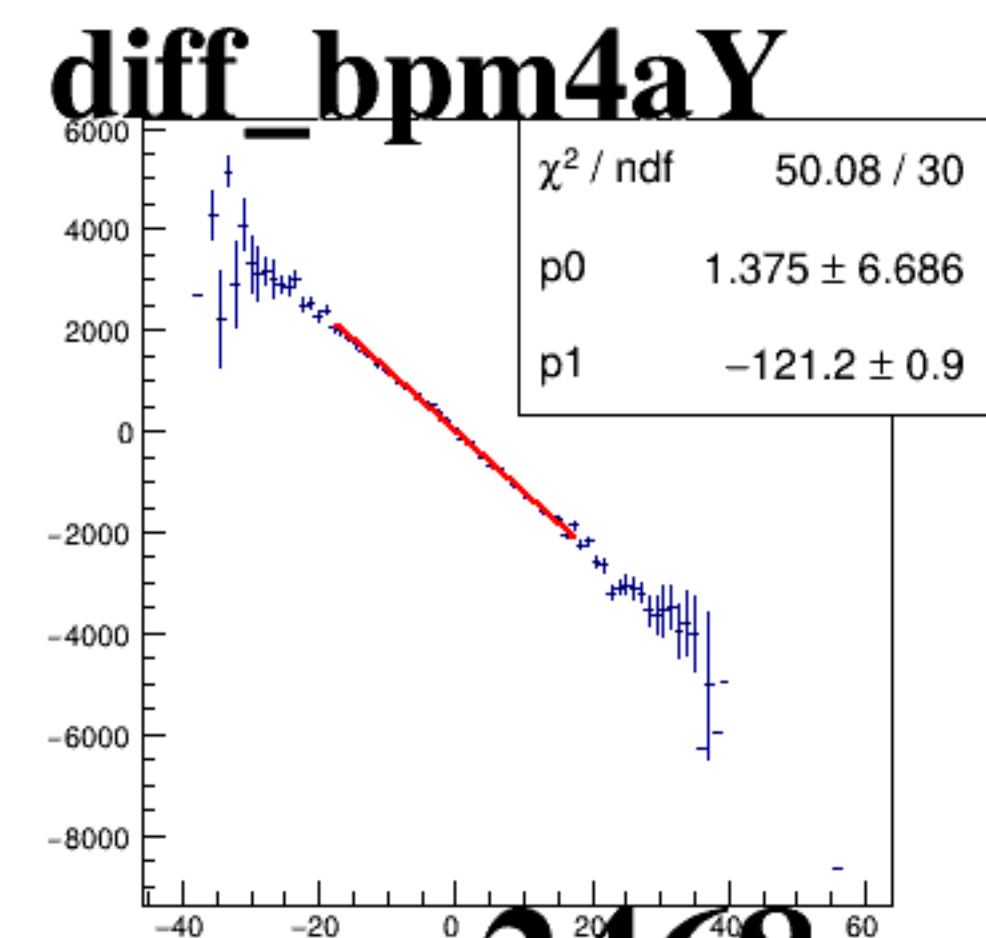
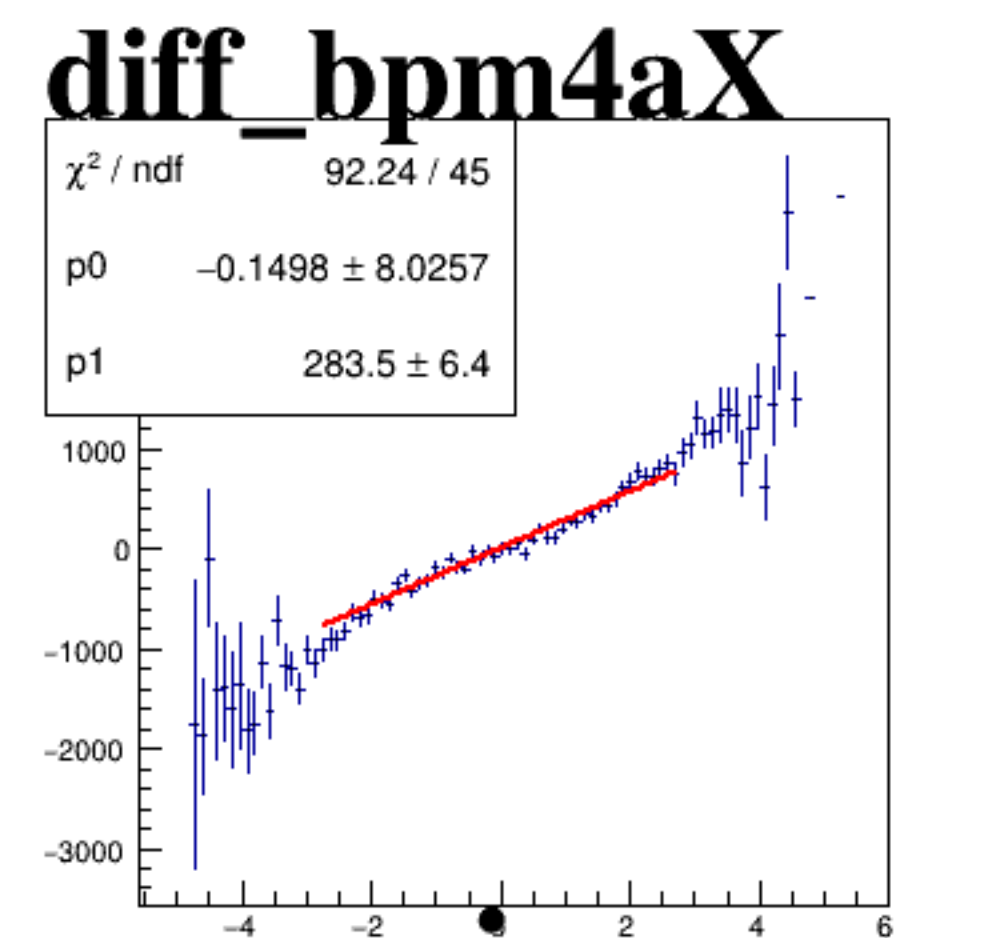
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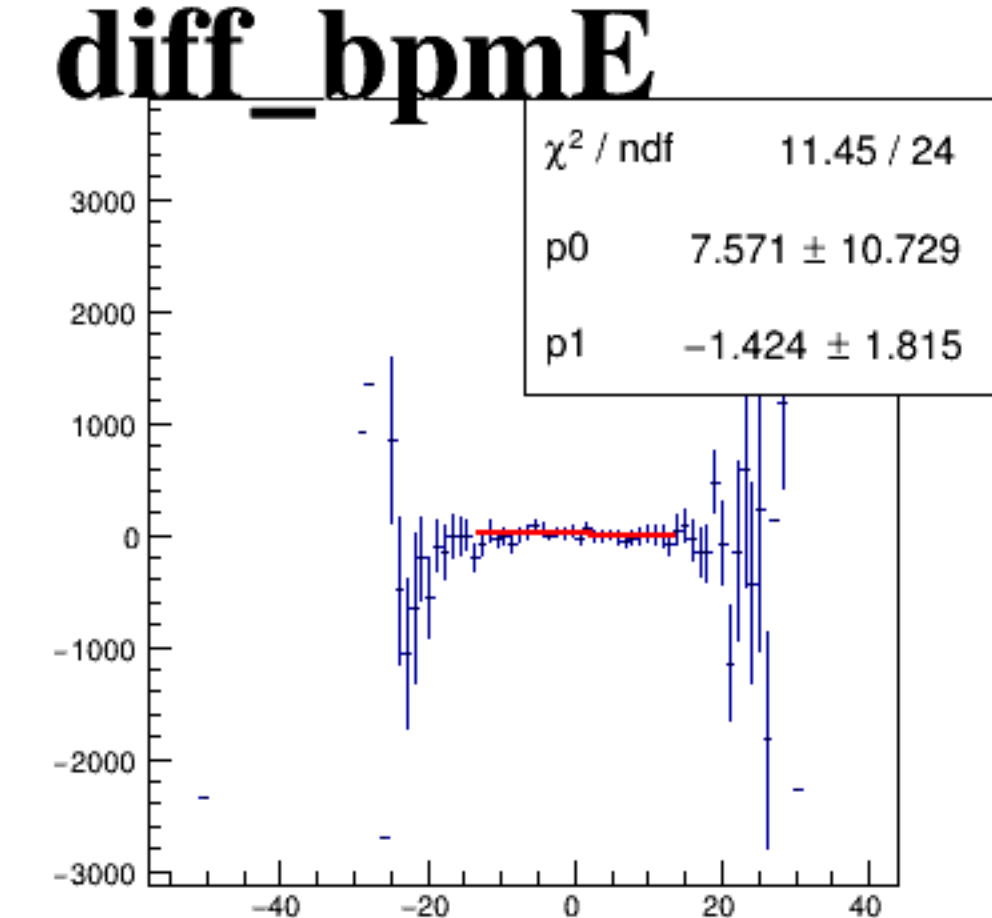
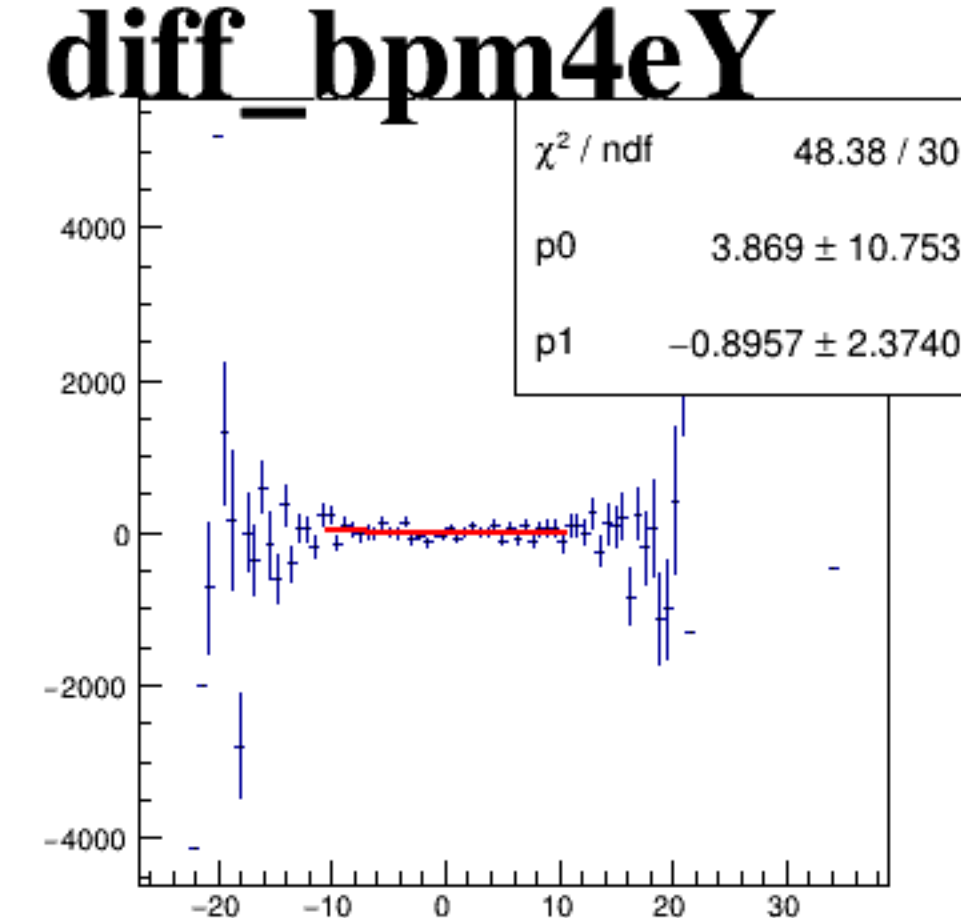
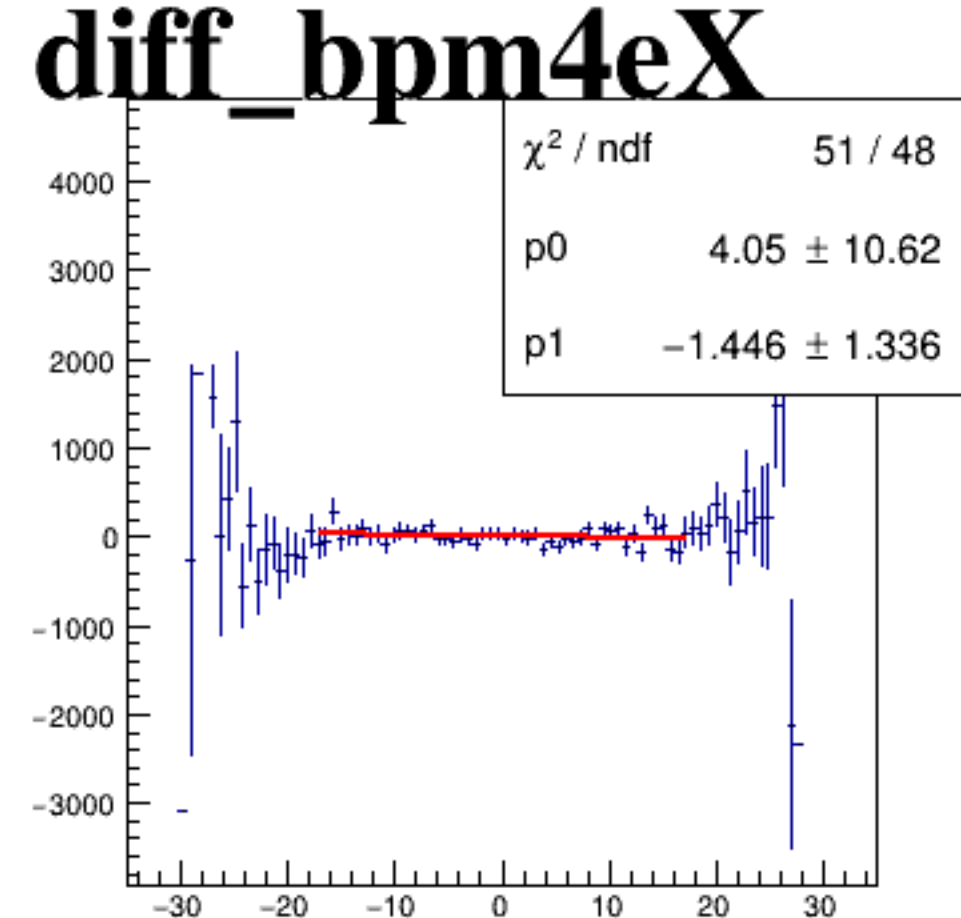
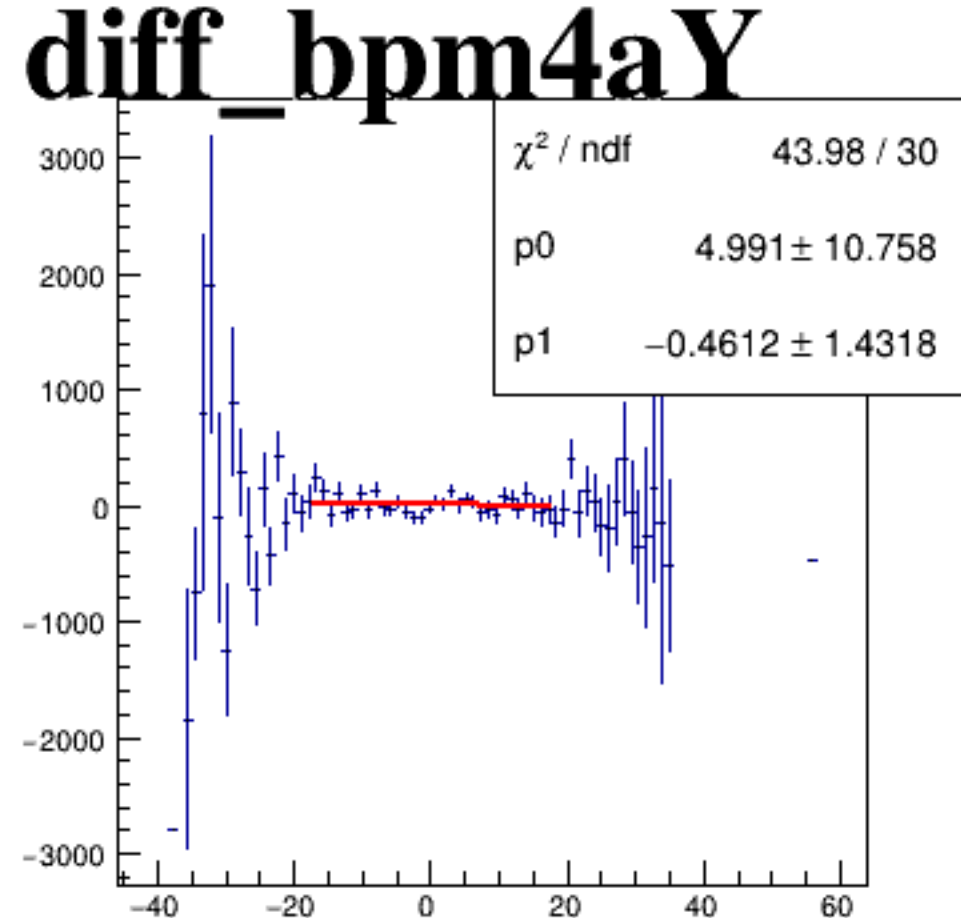
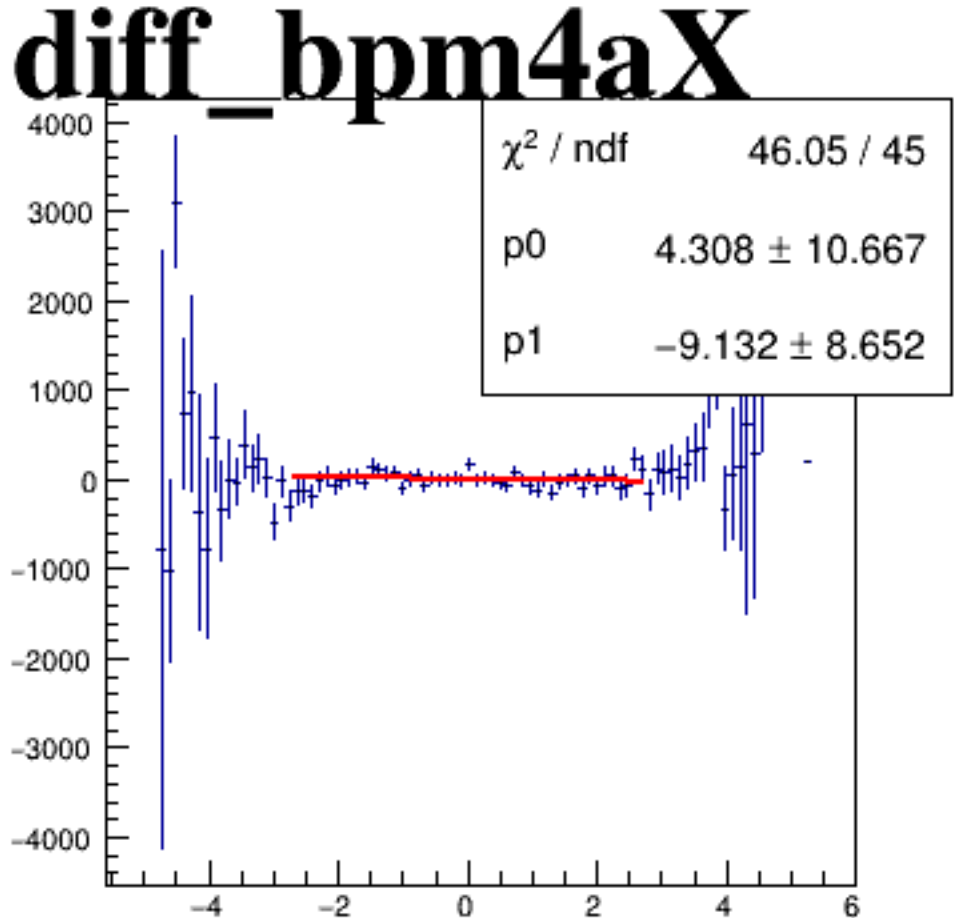
asym_sam6



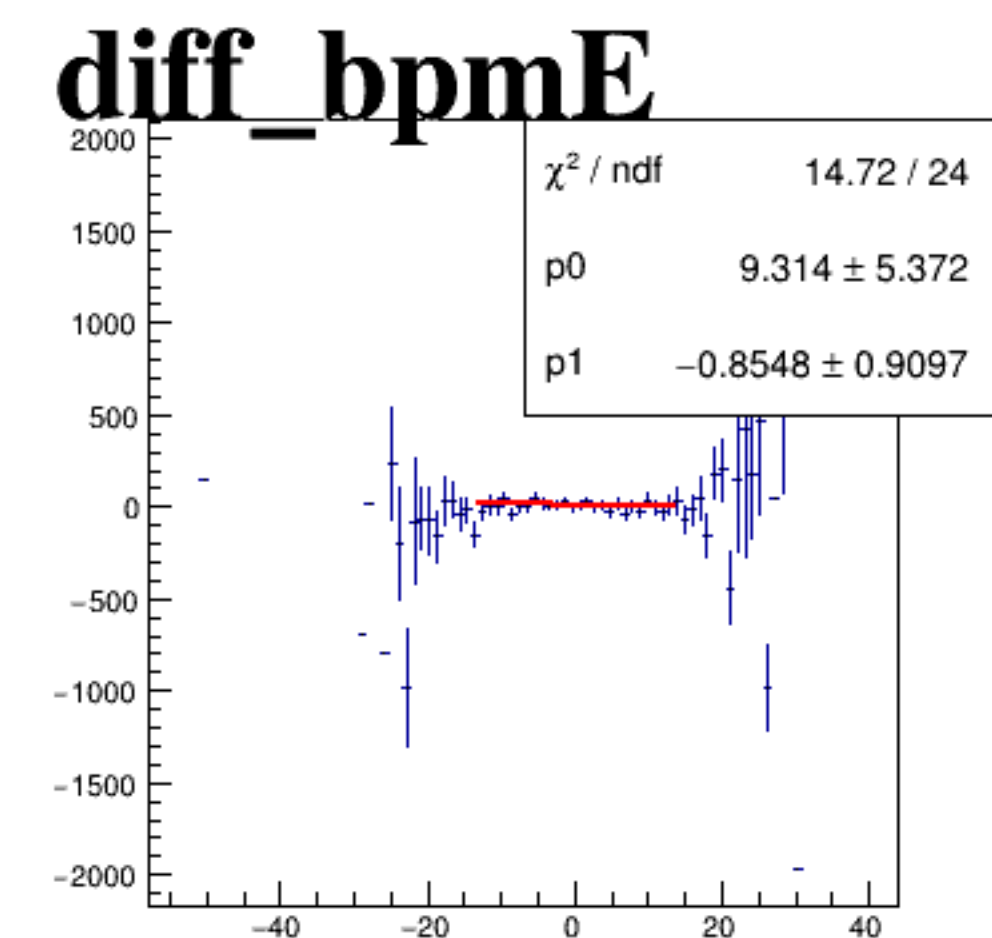
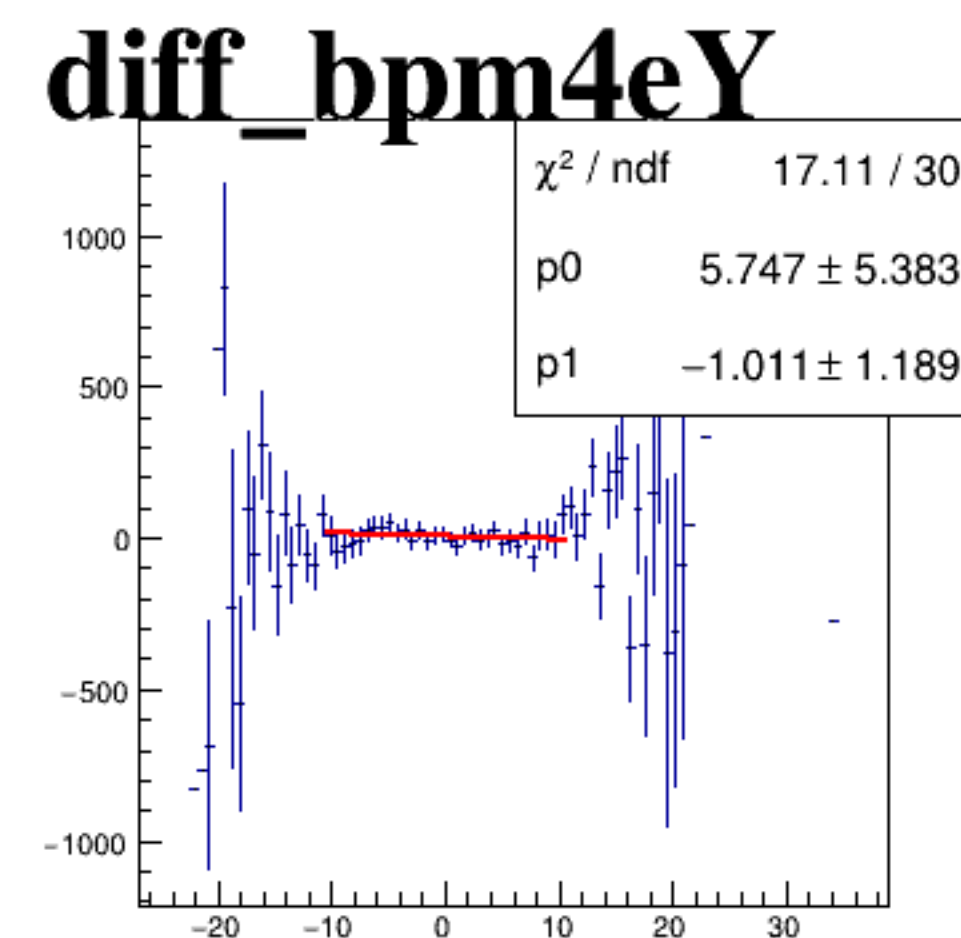
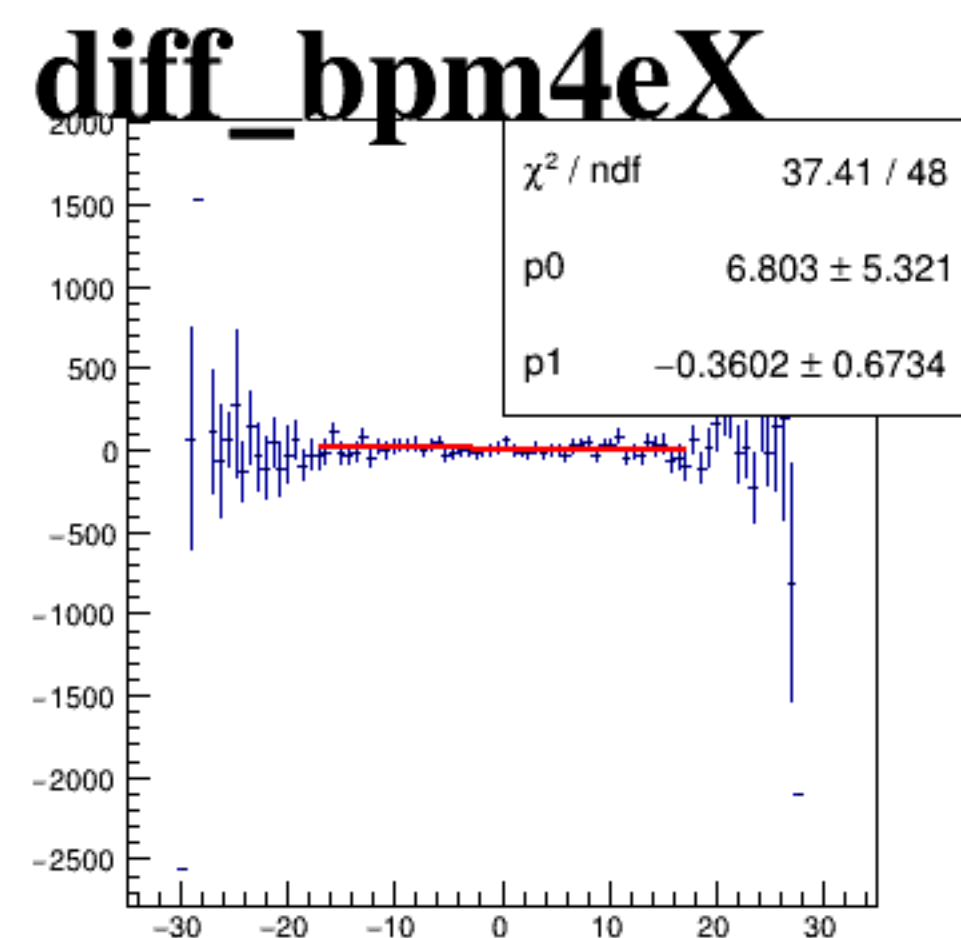
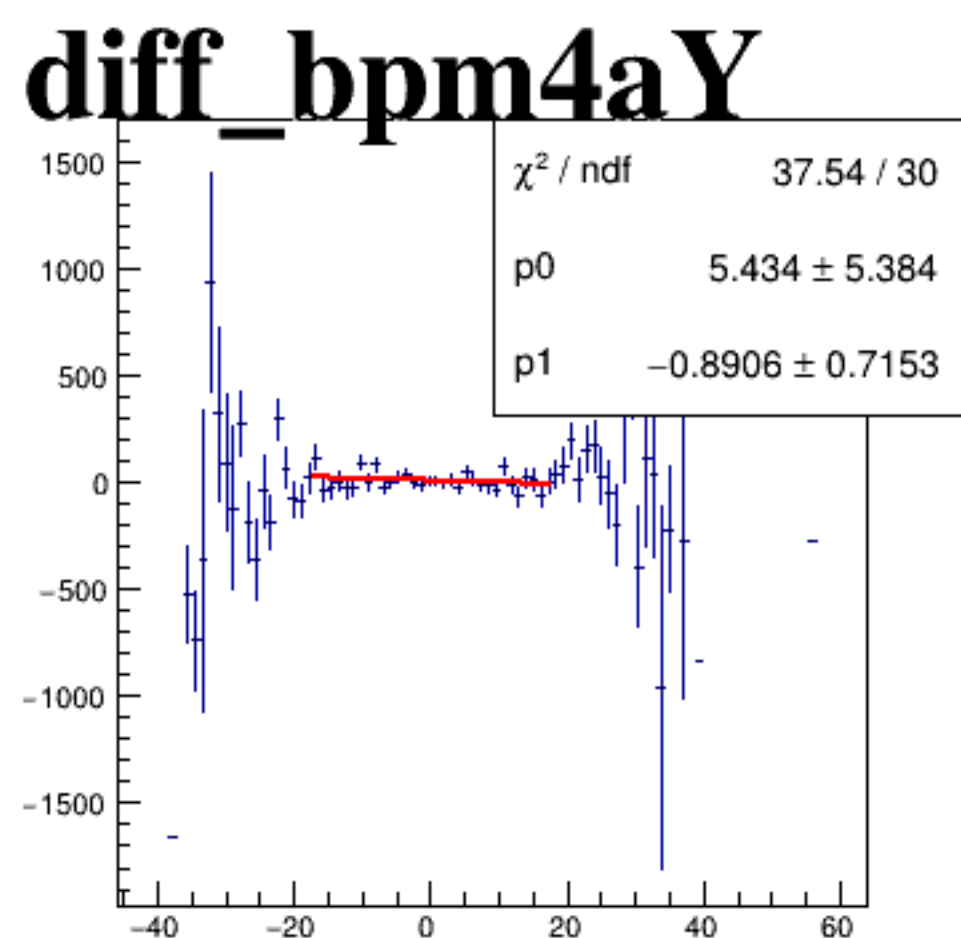
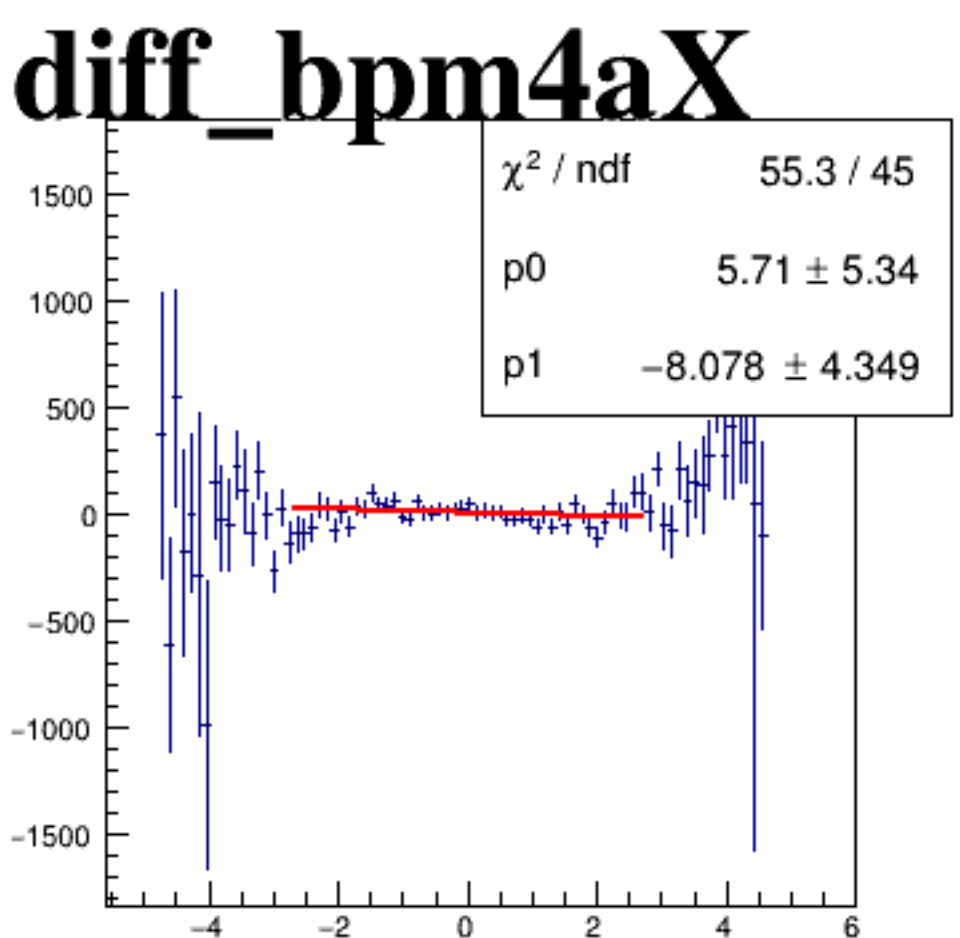
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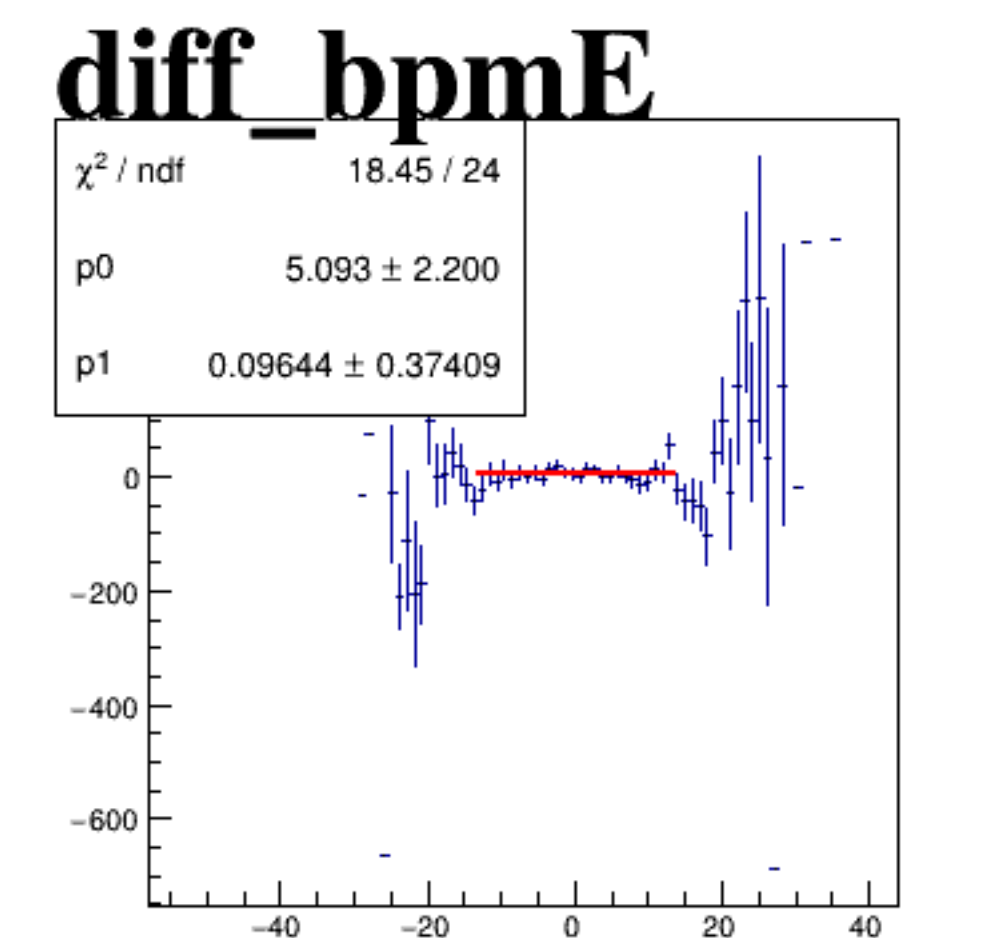
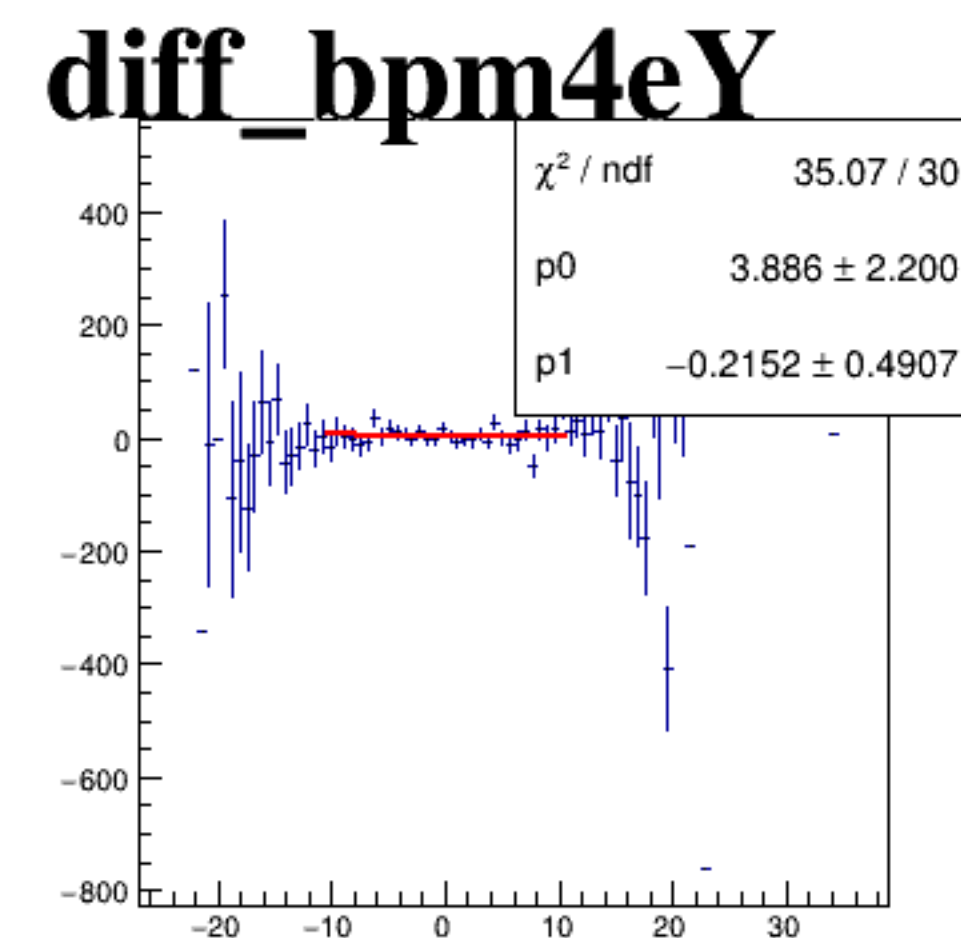
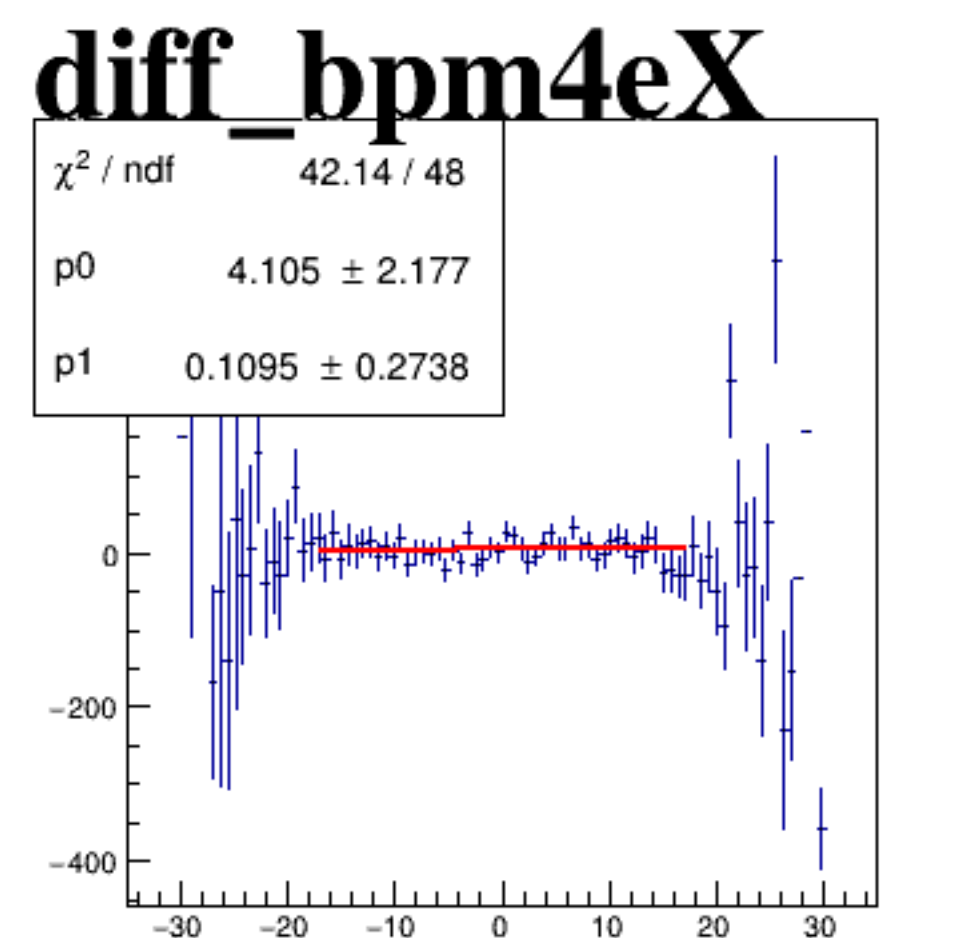
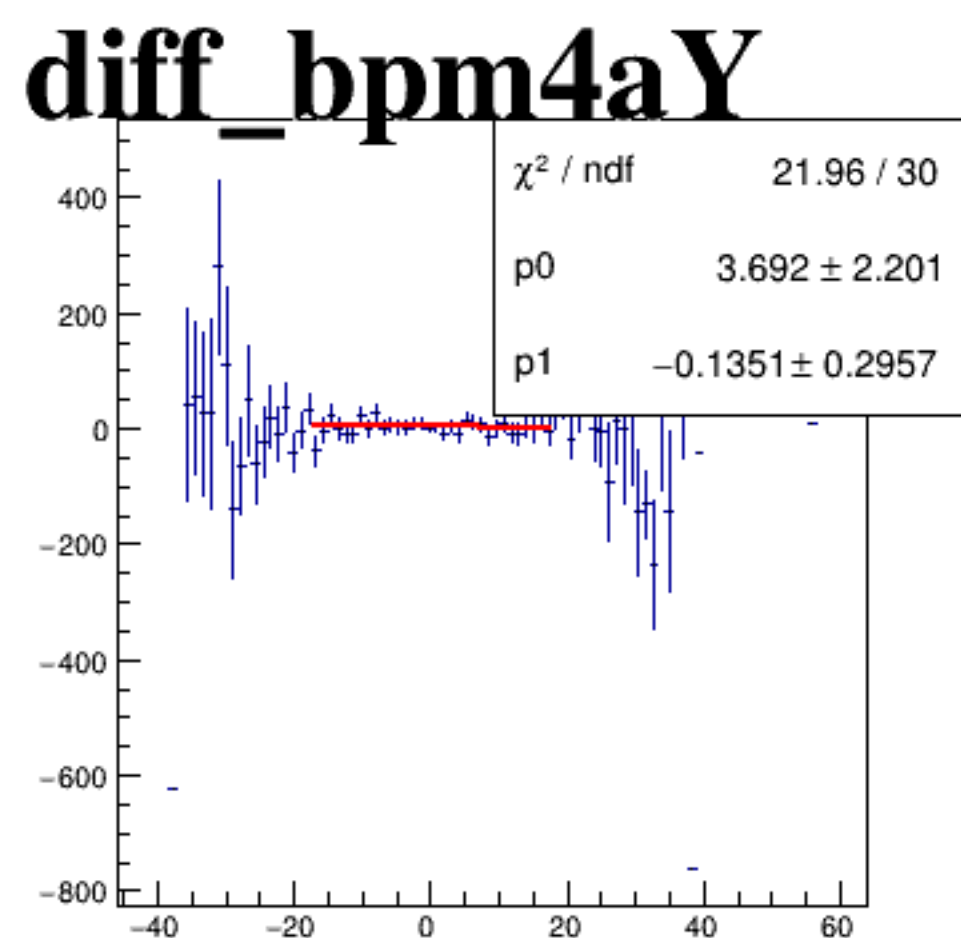
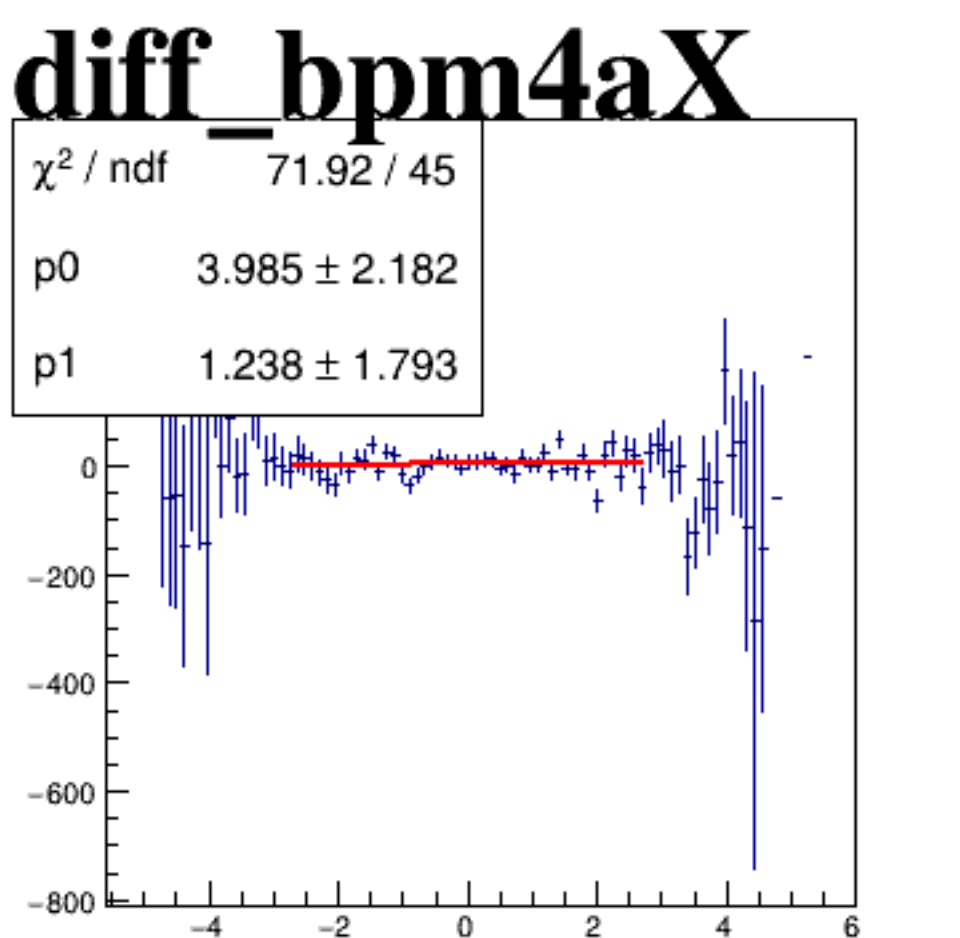
reg_asym_sam2



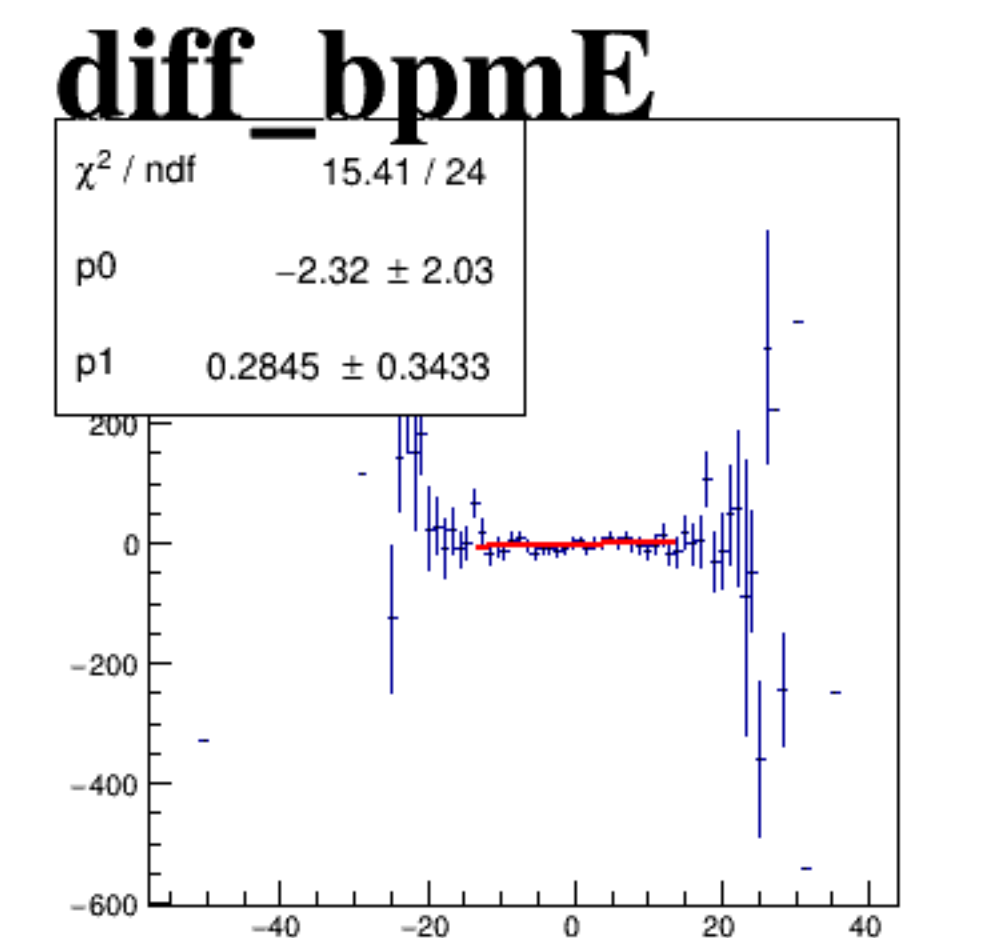
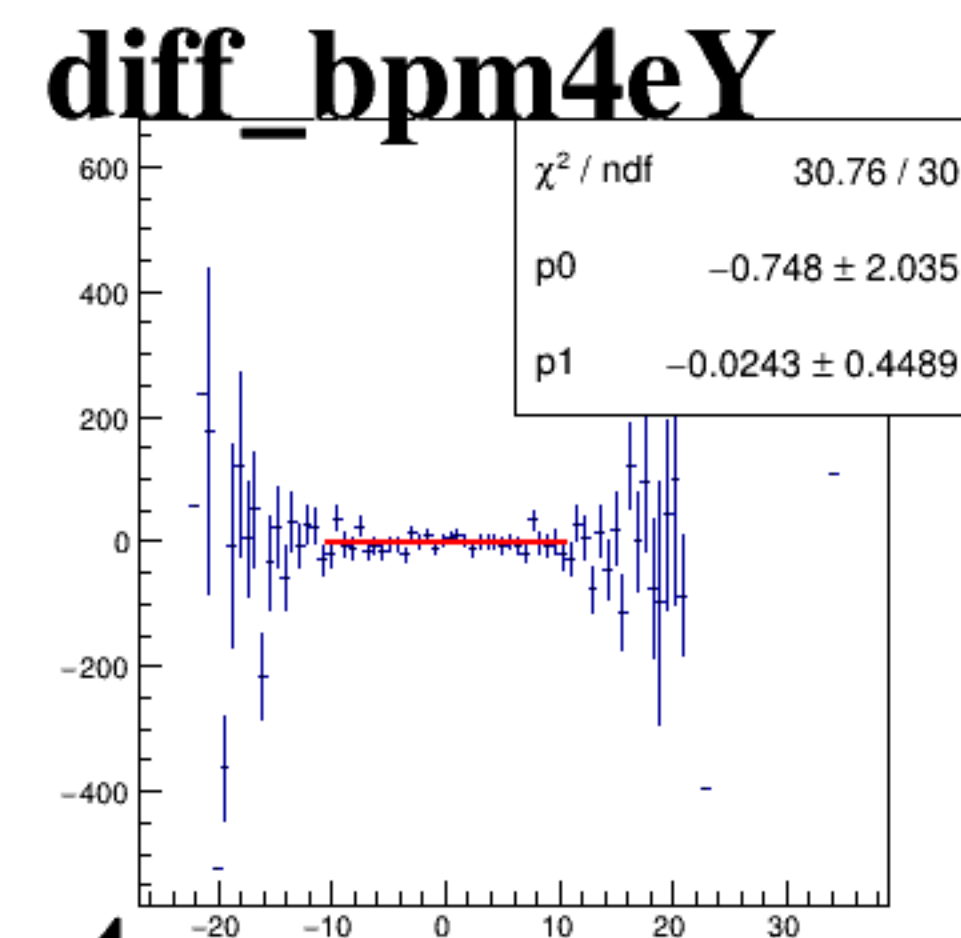
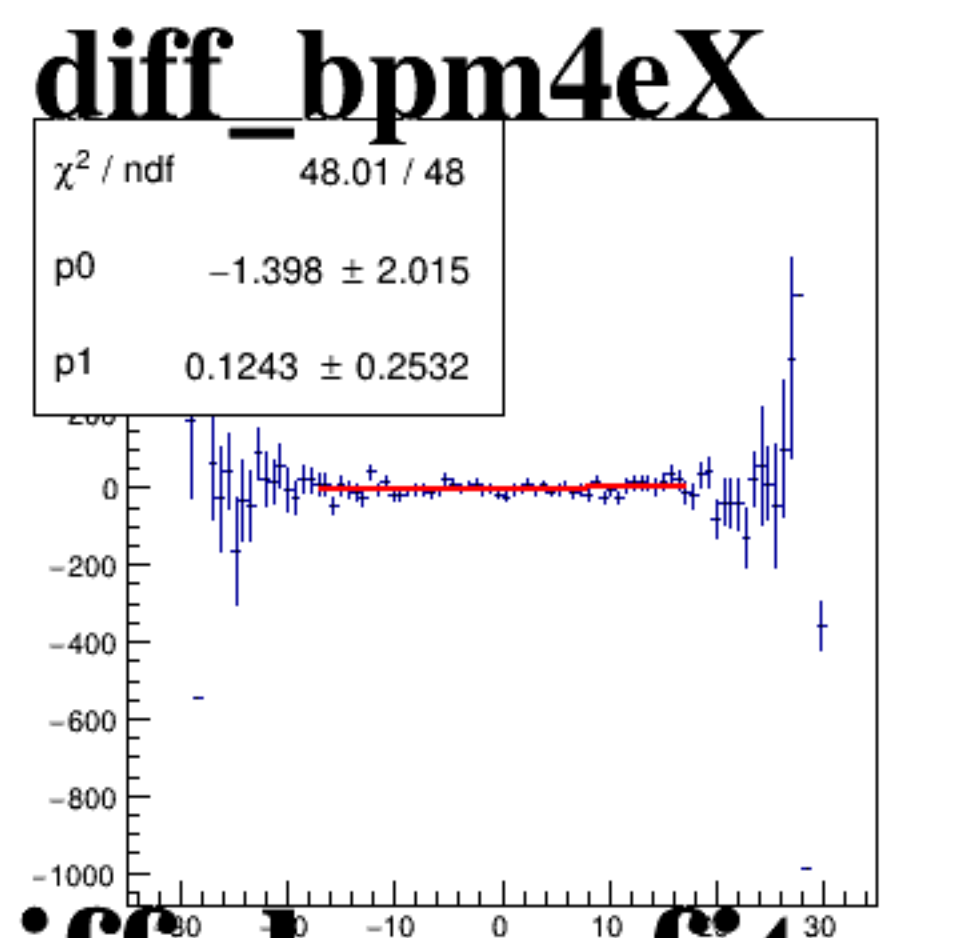
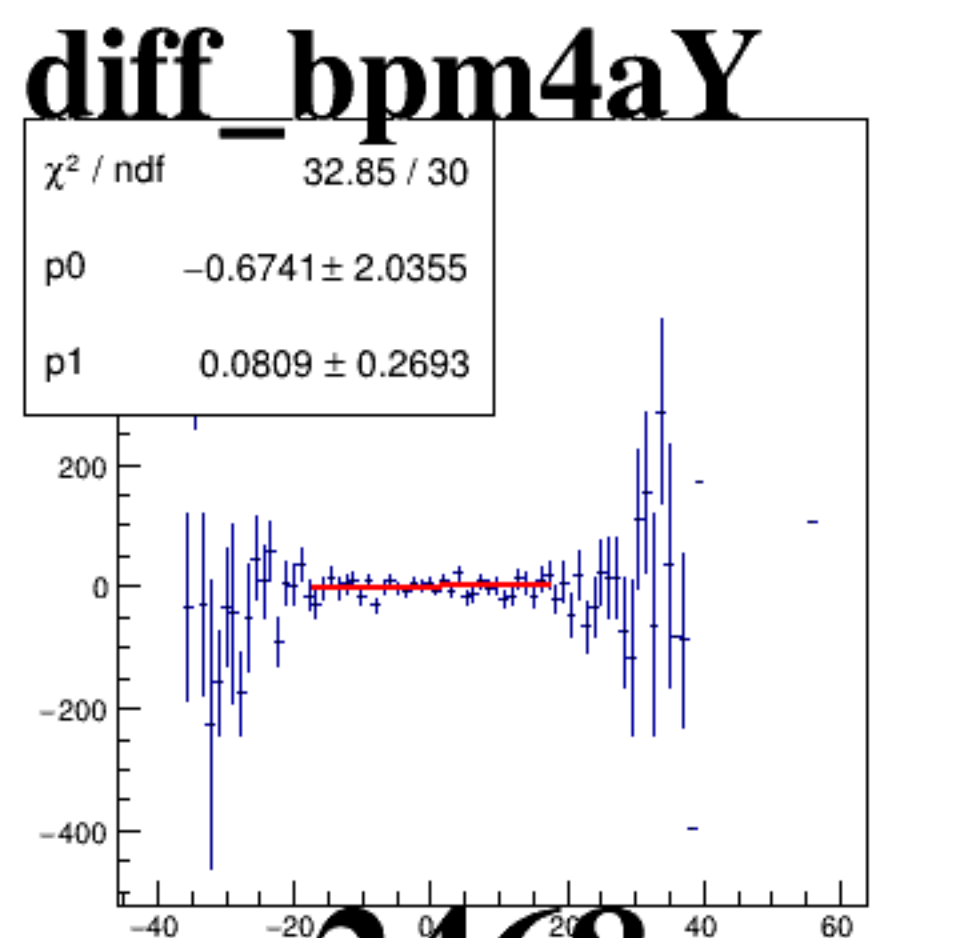
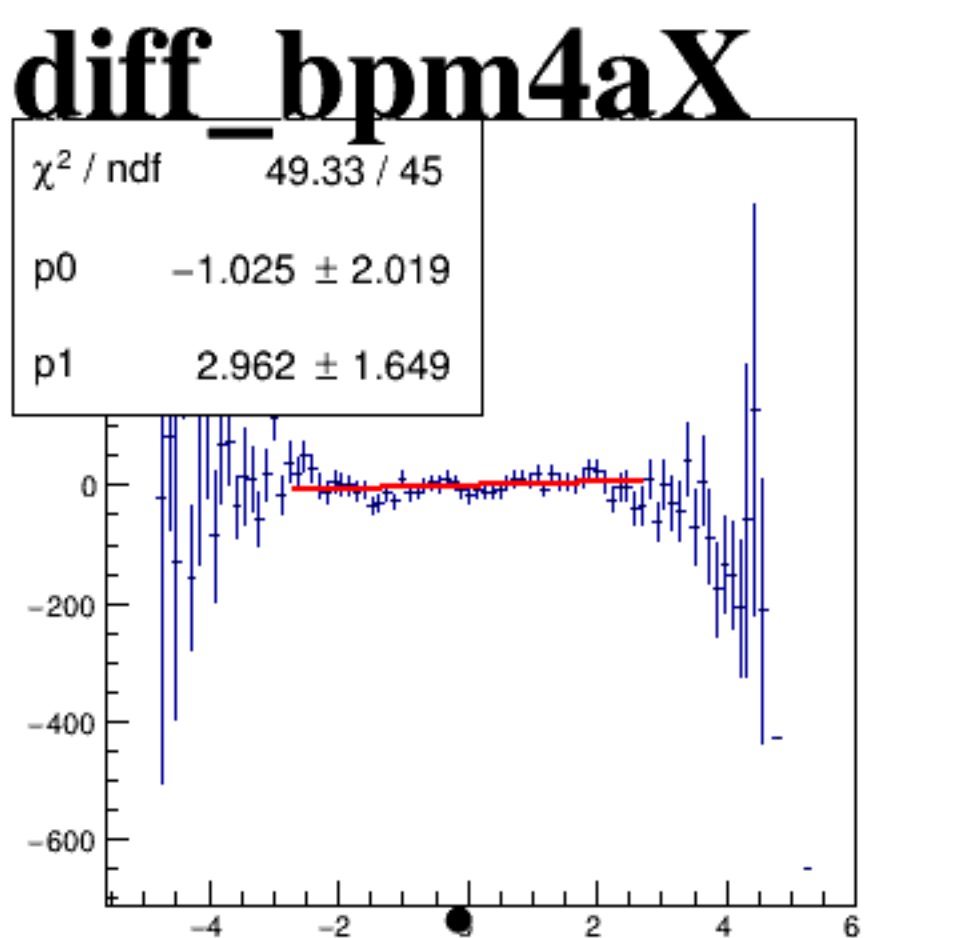
reg_asym_sam4



reg_asym_sam6



reg_asym_sam8



The figure displays five scatter plots, each representing the distribution of differences in BPM parameters for a specific beam parameter. The plots are arranged horizontally and labeled as follows:

- diff_bpm4aX**: The x-axis is labeled $\text{diff_bpm4aX}/\mu\text{m}$ and ranges from -4 to 6. The y-axis ranges from -20000 to 30000.
- diff_bpm4aY**: The x-axis is labeled $\text{diff_bpm4aY}/\mu\text{m}$ and ranges from -40 to 60. The y-axis ranges from -20000 to 30000.
- diff_bpm4eX**: The x-axis is labeled $\text{diff_bpm4eX}/\mu\text{m}$ and ranges from -30 to 30. The y-axis ranges from -20000 to 30000.
- diff_bpm4eY**: The x-axis is labeled $\text{diff_bpm4eY}/\mu\text{m}$ and ranges from -20 to 30. The y-axis ranges from -20000 to 30000.
- diff_bpmE**: The x-axis is labeled $\text{diff_bpmE}/\mu\text{m}$ and ranges from -50 to 40. The y-axis ranges from -20000 to 30000.

Each plot shows a dense cloud of points, indicating a Gaussian-like distribution of differences. The distributions are centered around zero on the x-axis, with varying widths and y-axis ranges.

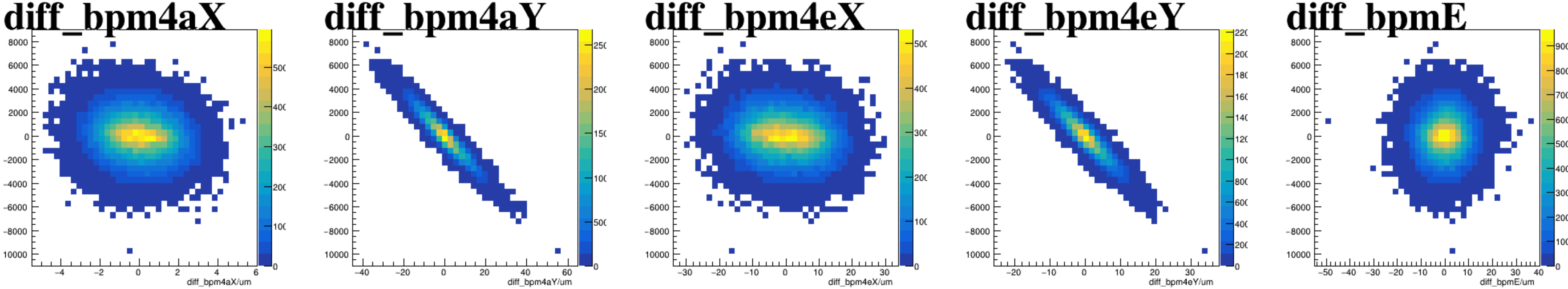
The figure displays five scatter plots arranged in a single row, each showing the relationship between a regression model and a target variable. The plots are titled as follows:

- diff_bpm4aX**: The y-axis ranges from -10000 to 8000, and the x-axis ranges from -6 to 6. The data points form a dense, roughly circular cloud centered at (0,0).
- diff_bpm4aY**: The y-axis ranges from -10000 to 8000, and the x-axis ranges from -40 to 60. The data points form a dense, elongated elliptical cloud centered around (-10, 0).
- diff_bpm4eX**: The y-axis ranges from -10000 to 8000, and the x-axis ranges from -30 to 30. The data points form a dense, elongated elliptical cloud centered around (0, 0).
- diff_bpm4eY**: The y-axis ranges from -10000 to 8000, and the x-axis ranges from -20 to 40. The data points form a dense, elongated elliptical cloud centered around (-10, 0).
- diff_bpmE**: The y-axis ranges from -10000 to 8000, and the x-axis ranges from -50 to 40. The data points form a dense, roughly circular cloud centered at (0,0).

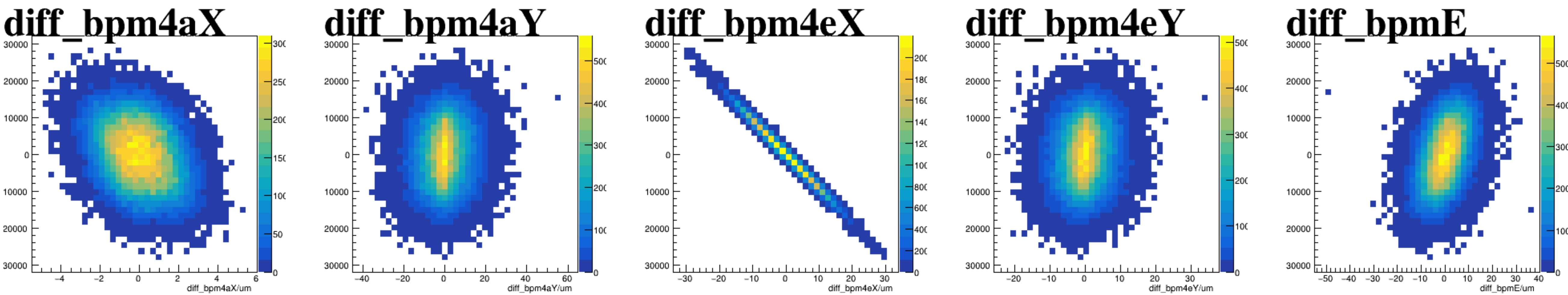
Each plot has a y-axis labeled from -10000 to 8000 and an x-axis labeled with the corresponding variable name. The plots show the distribution of data points for each model, with the density of points being highest in the center of each cloud.

The figure consists of five scatter plots arranged horizontally, each showing the distribution of a different diffraction order. The plots are titled 'diff_bpm4aX', 'diff_bpm4aY', 'diff_bpm4eX', 'diff_bpm4eY', and 'diff_bpmE'. Each plot has a y-axis ranging from -2000 to 2000 and an x-axis ranging from -4 to 6, -40 to 60, -30 to 30, -20 to 30, and -50 to 40, respectively. The data points are densely packed in a circular pattern around the origin, indicating a Gaussian-like distribution of the diffraction orders.

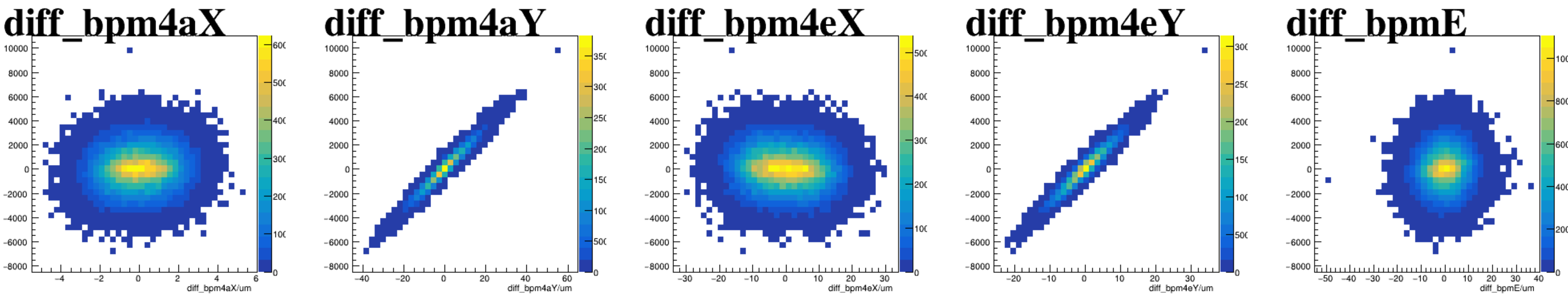
asym_sam1



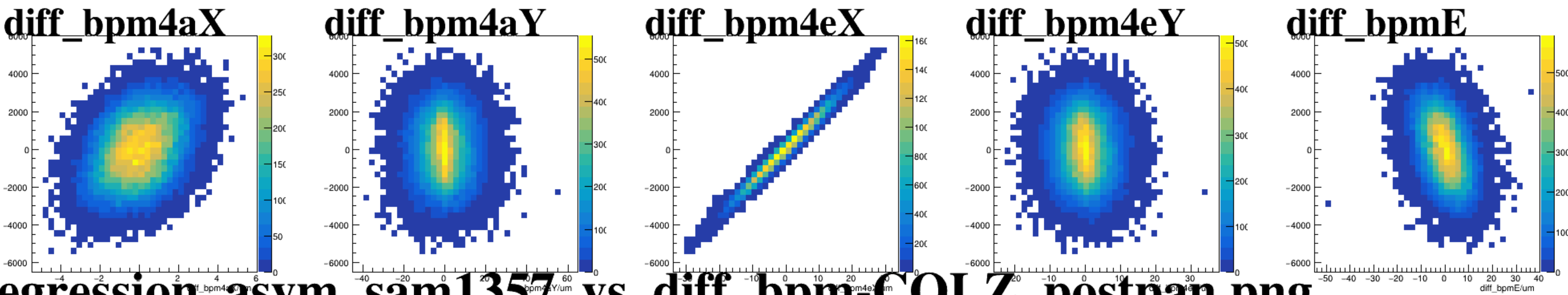
asym_sam3



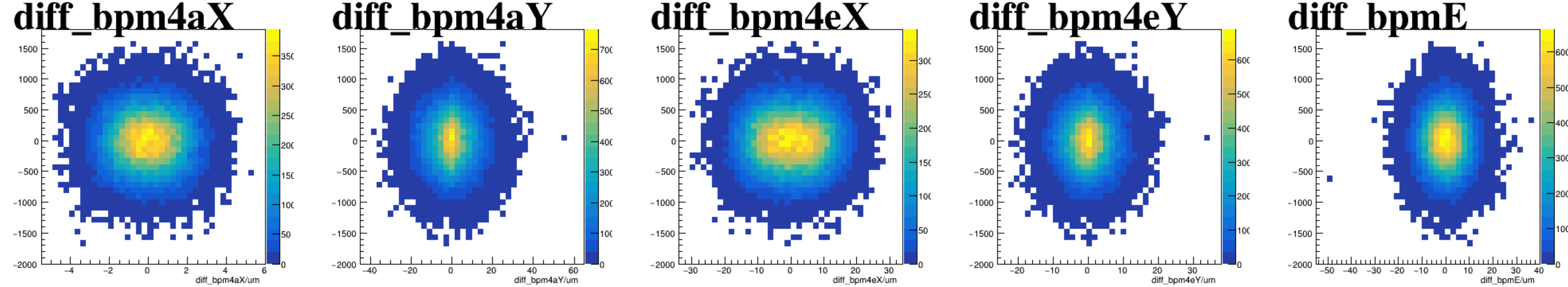
asym_sam5



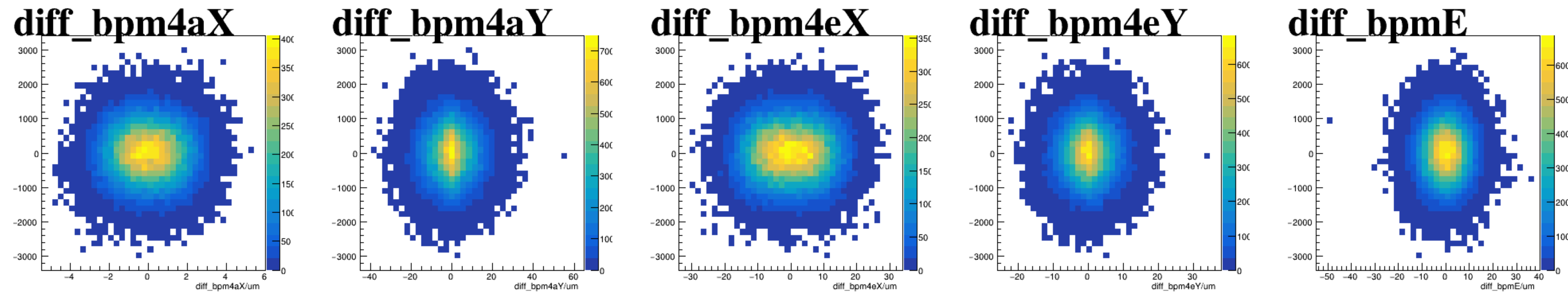
asym_sam7



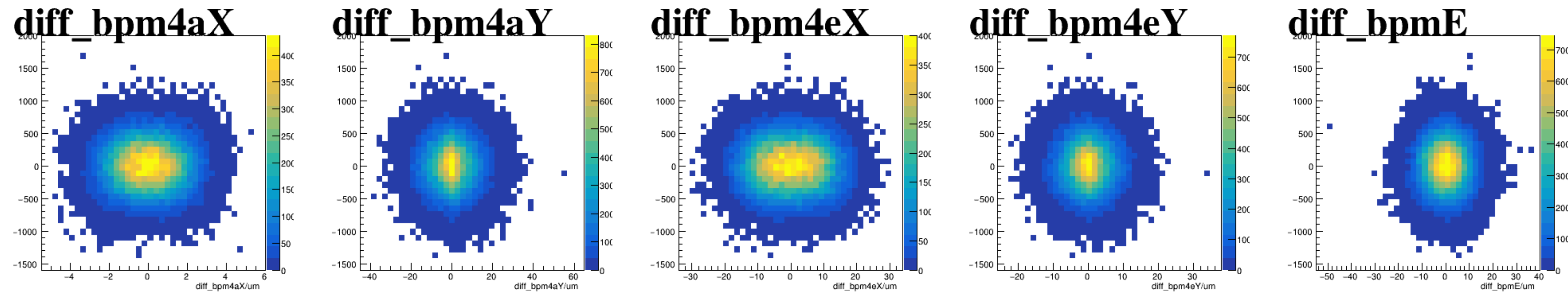
reg_asym_sam1



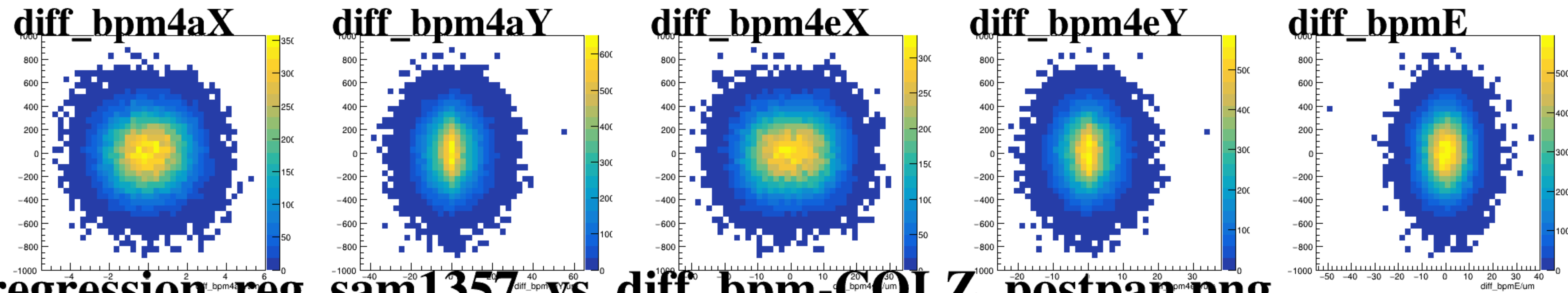
reg_asym_sam3



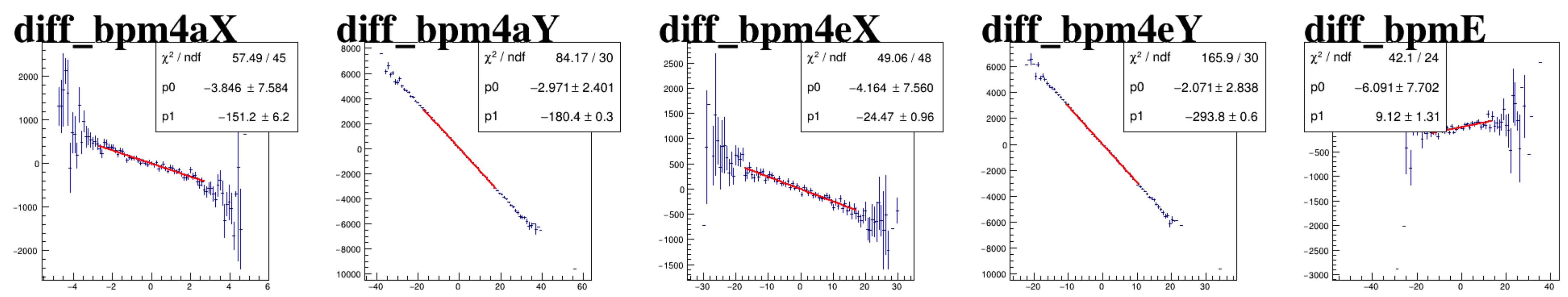
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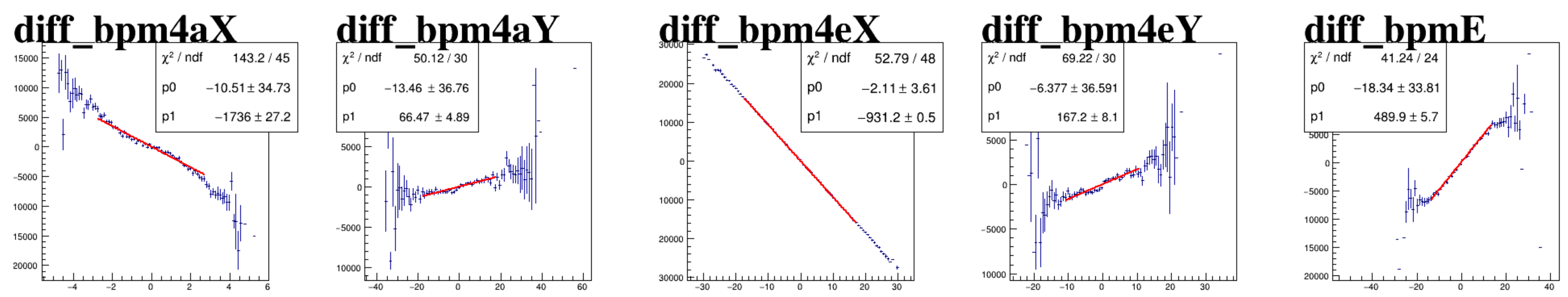
reg_asym_sam7



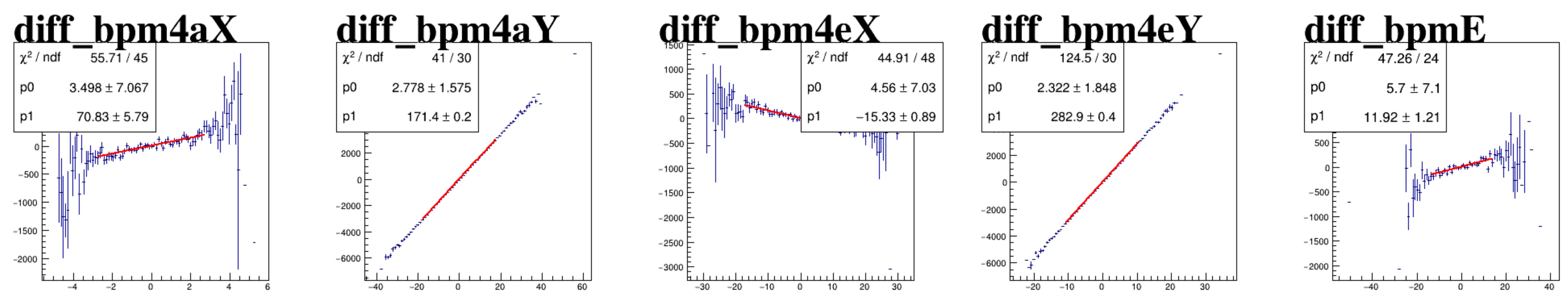
asym_sam1



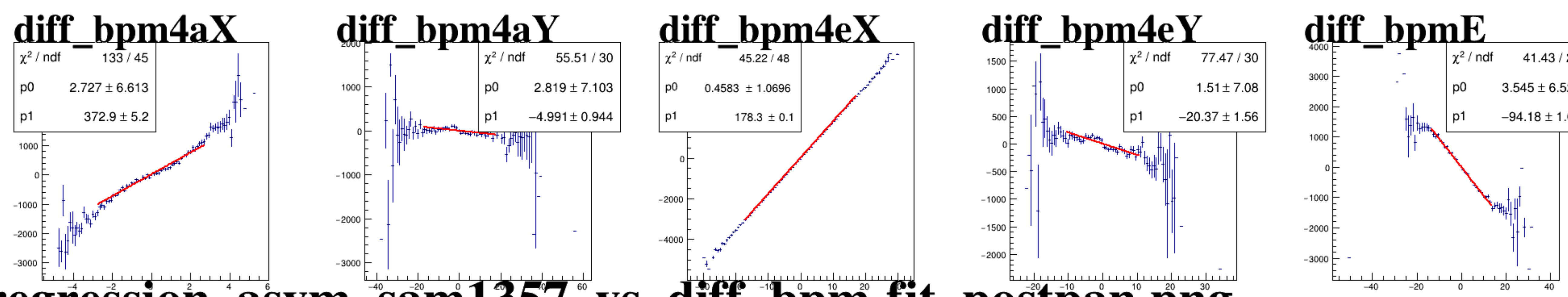
asym_sam3



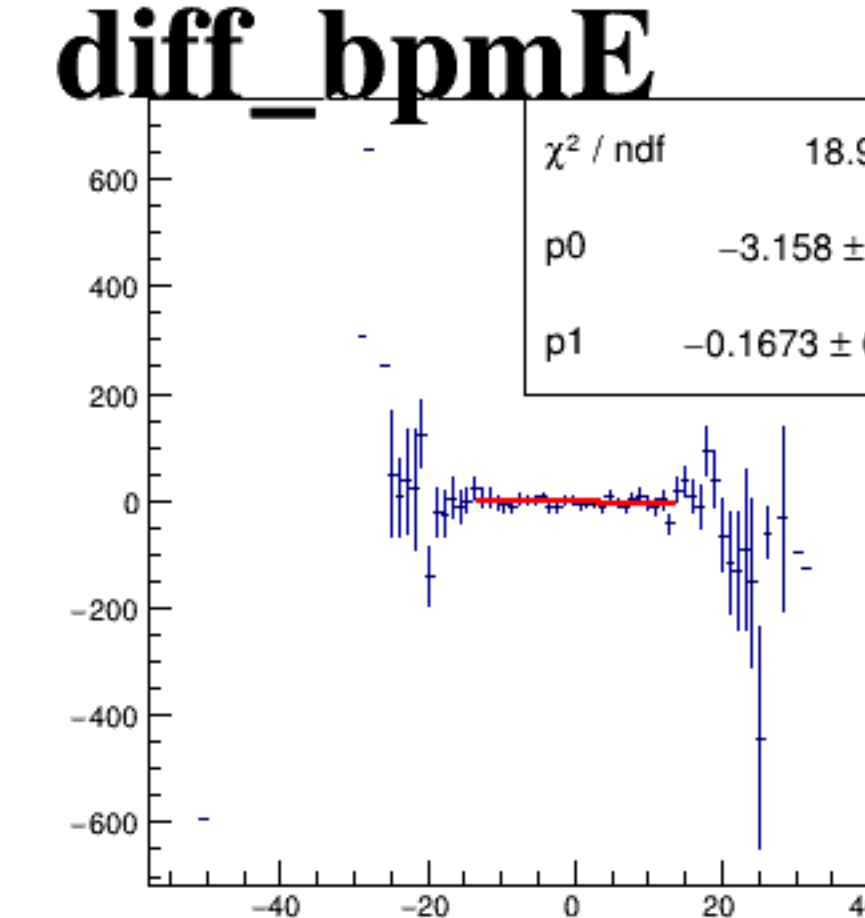
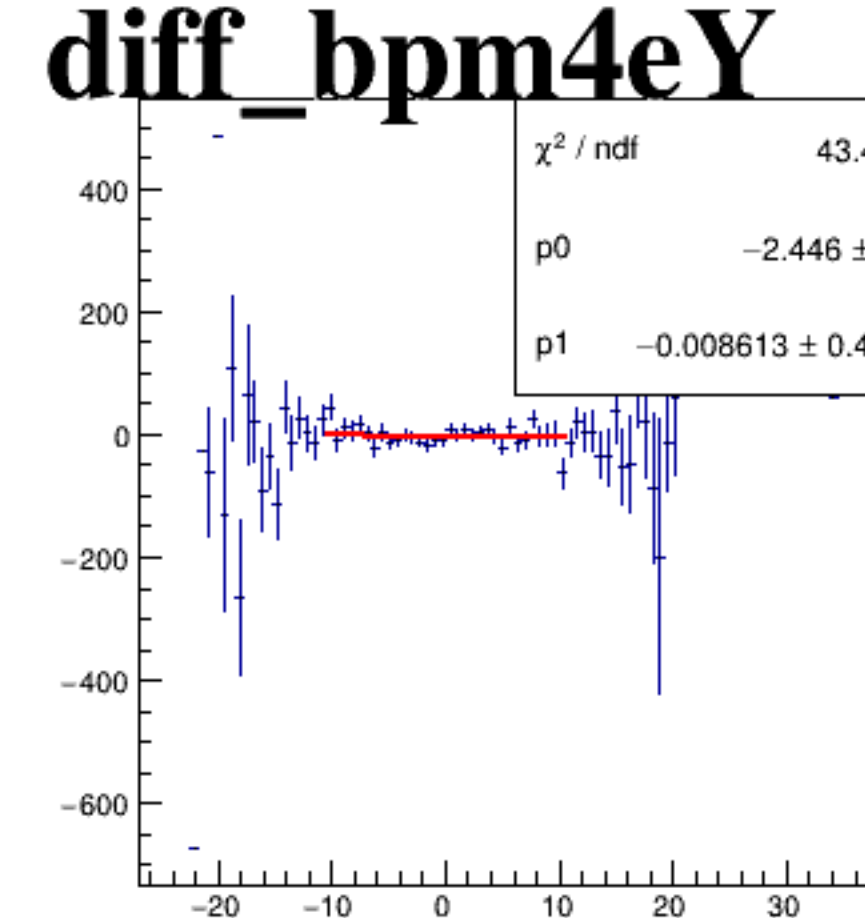
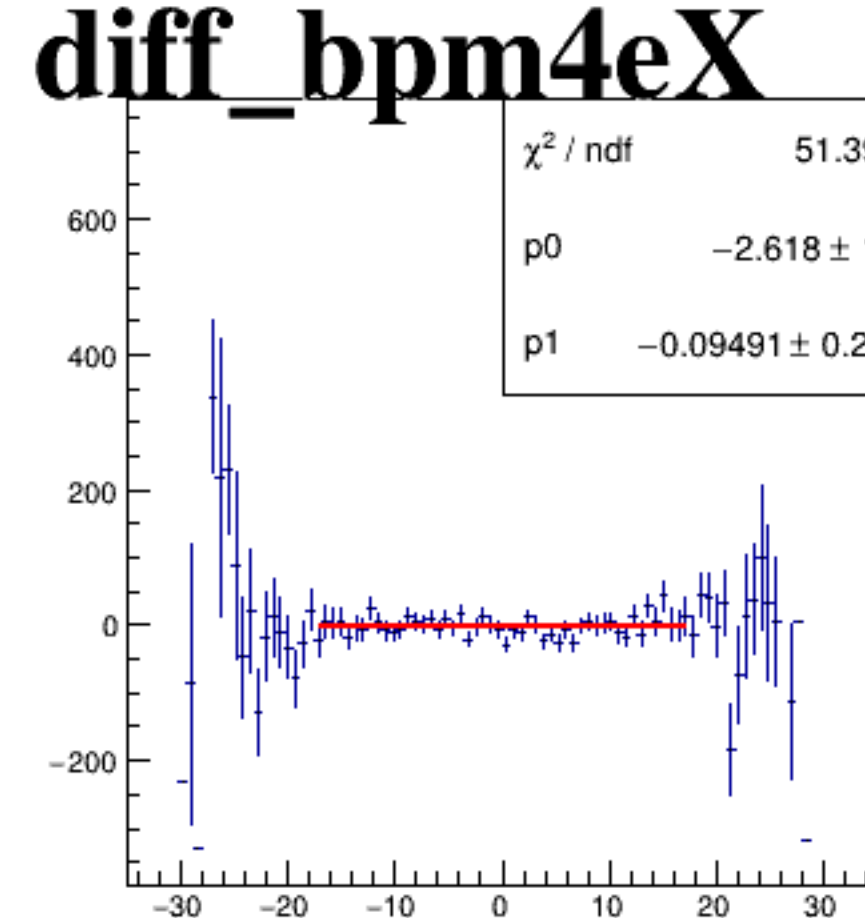
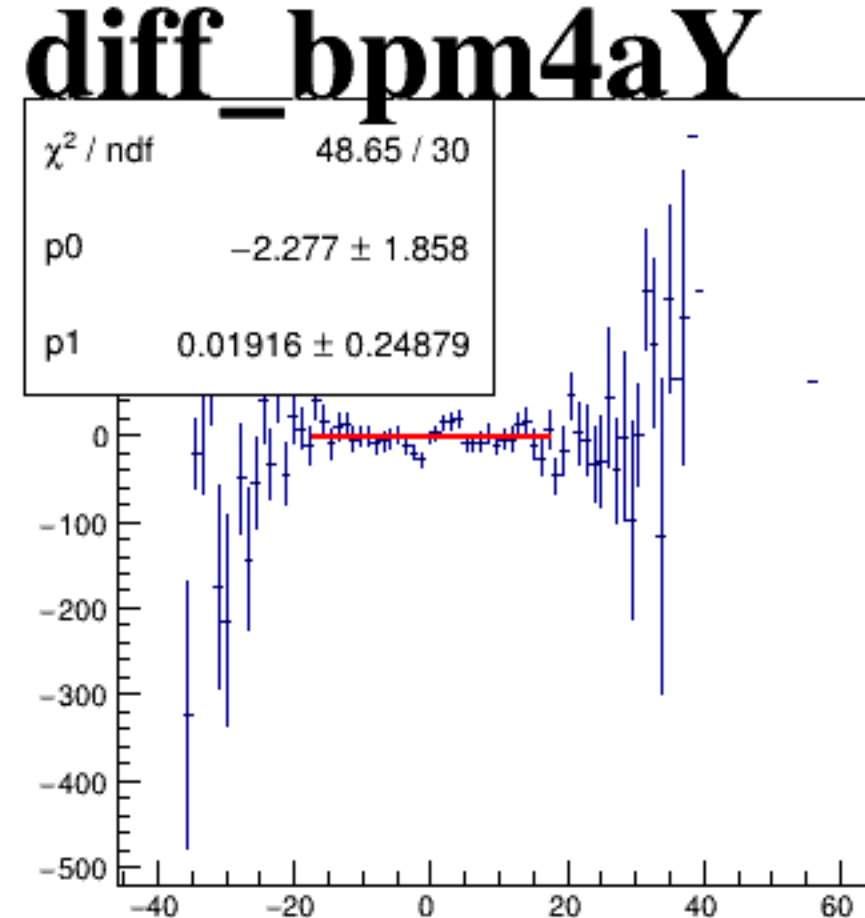
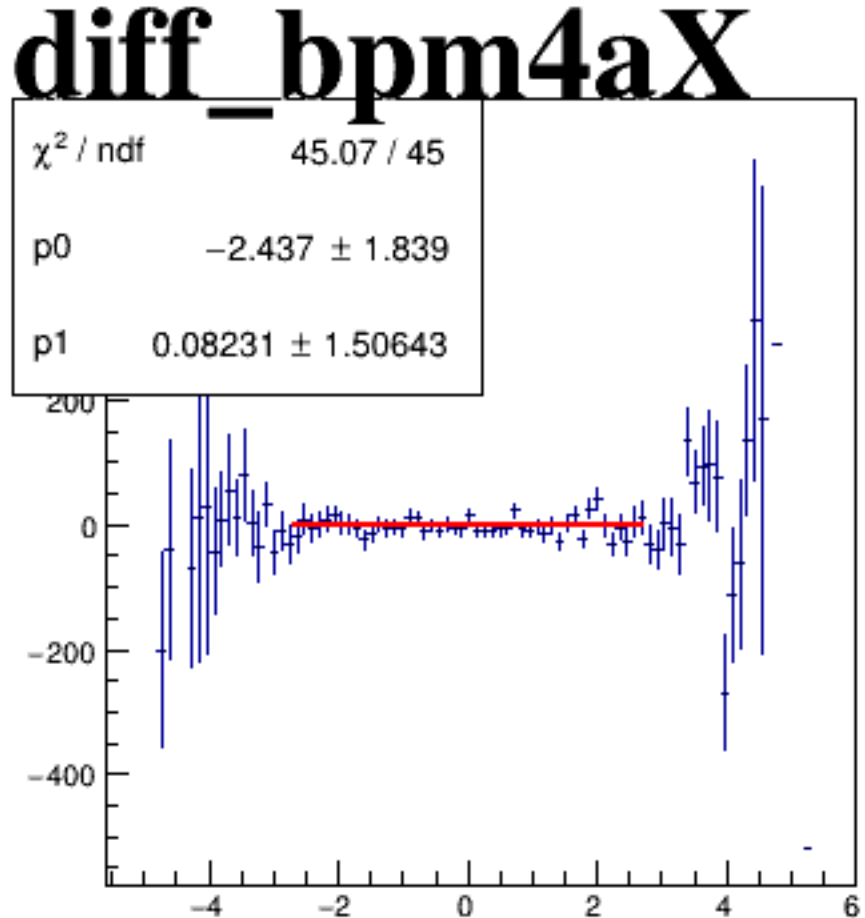
asym_sam5



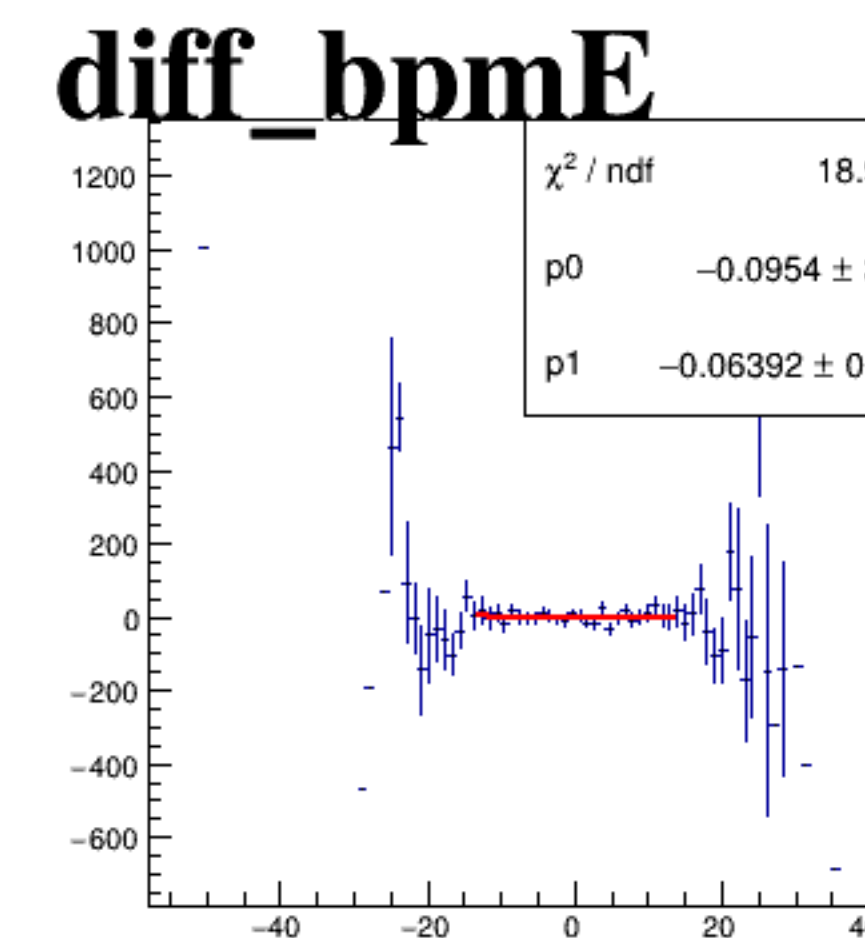
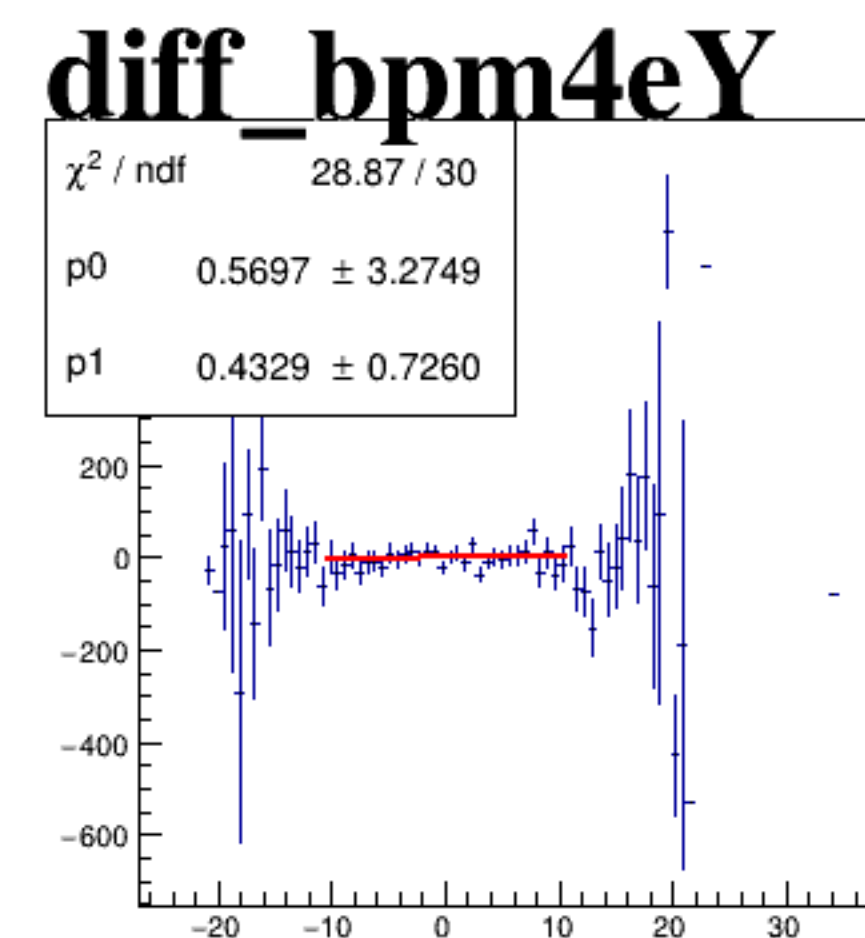
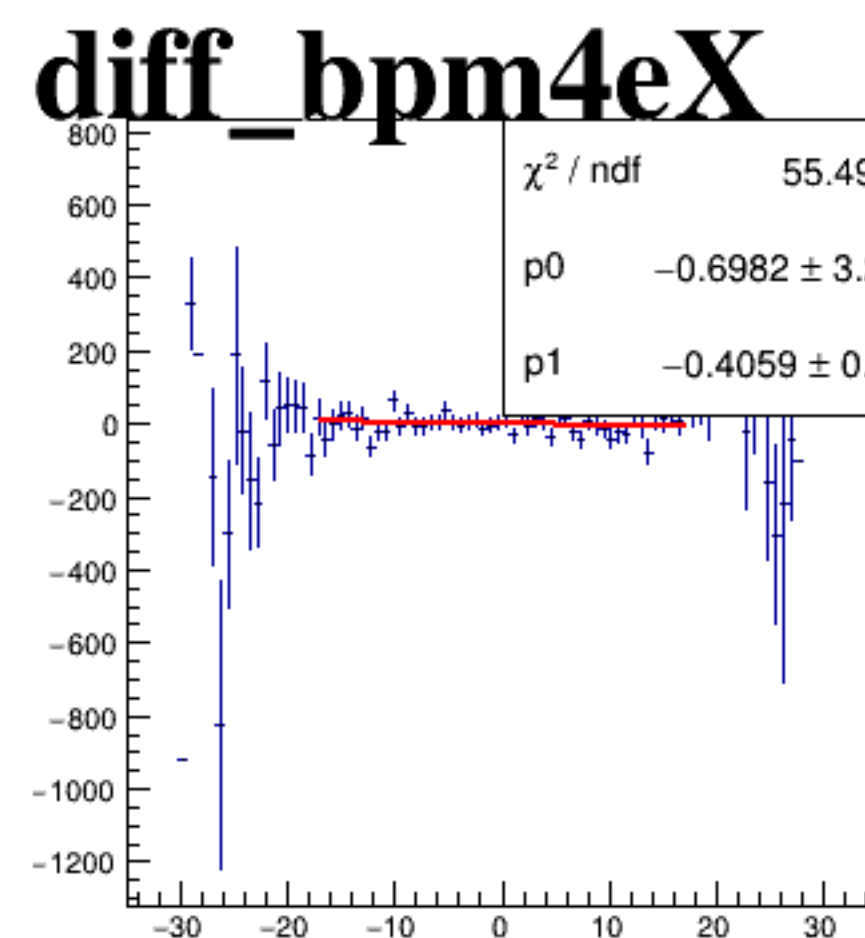
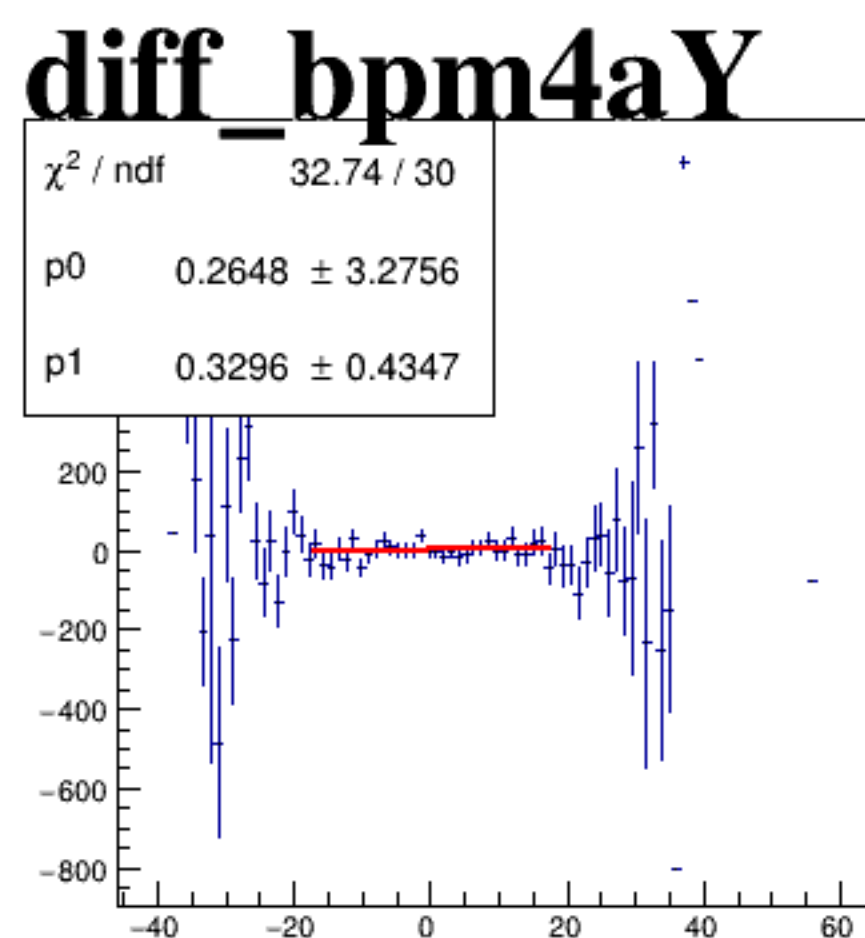
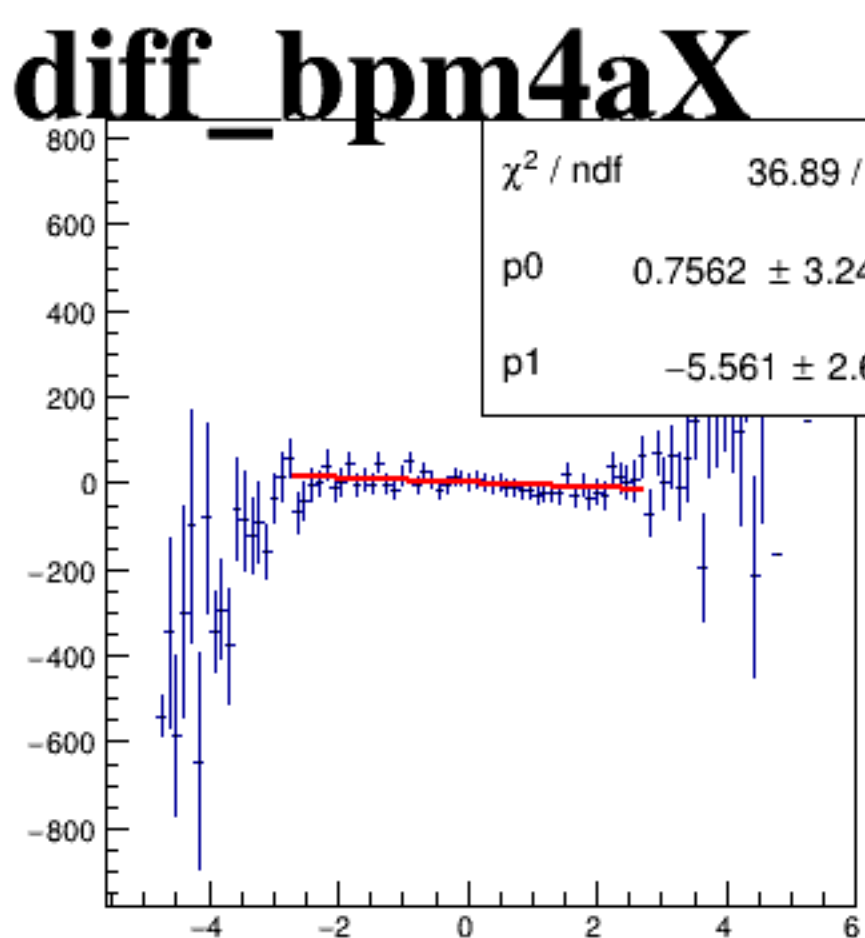
asym_sam7



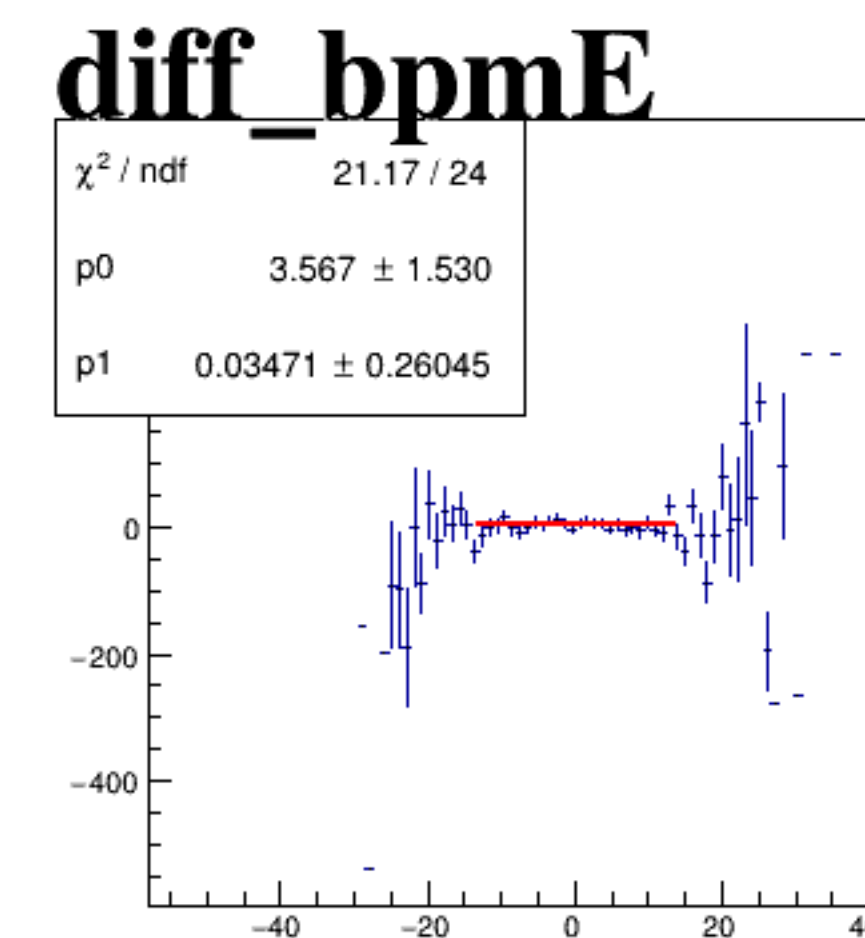
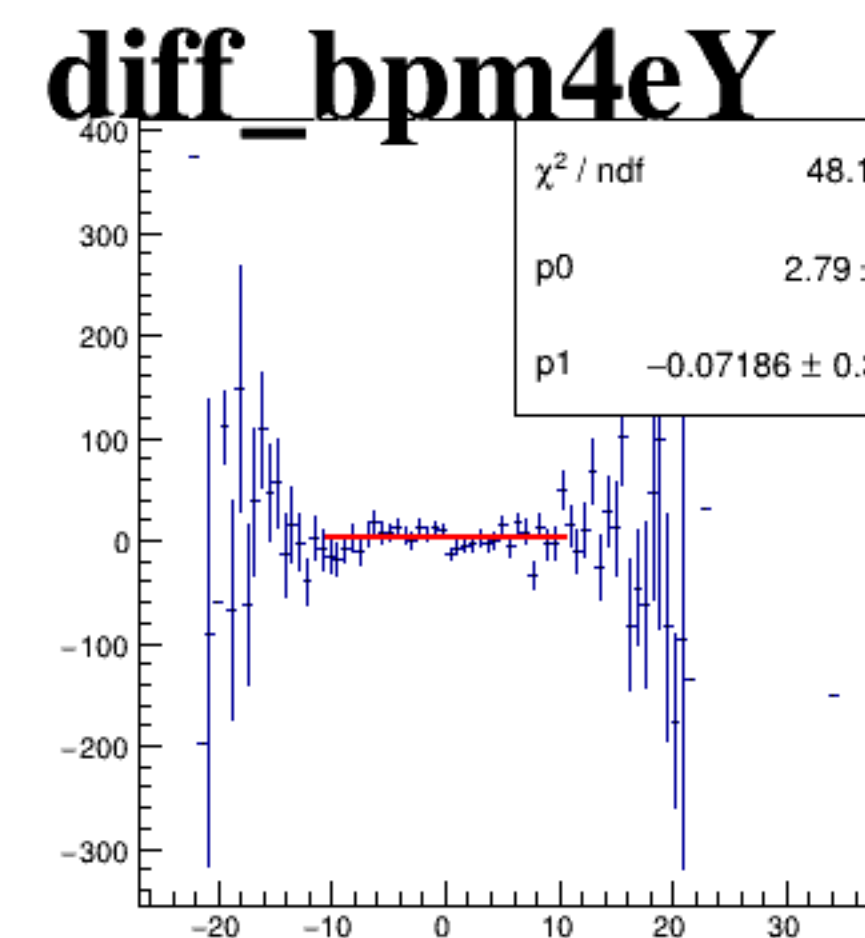
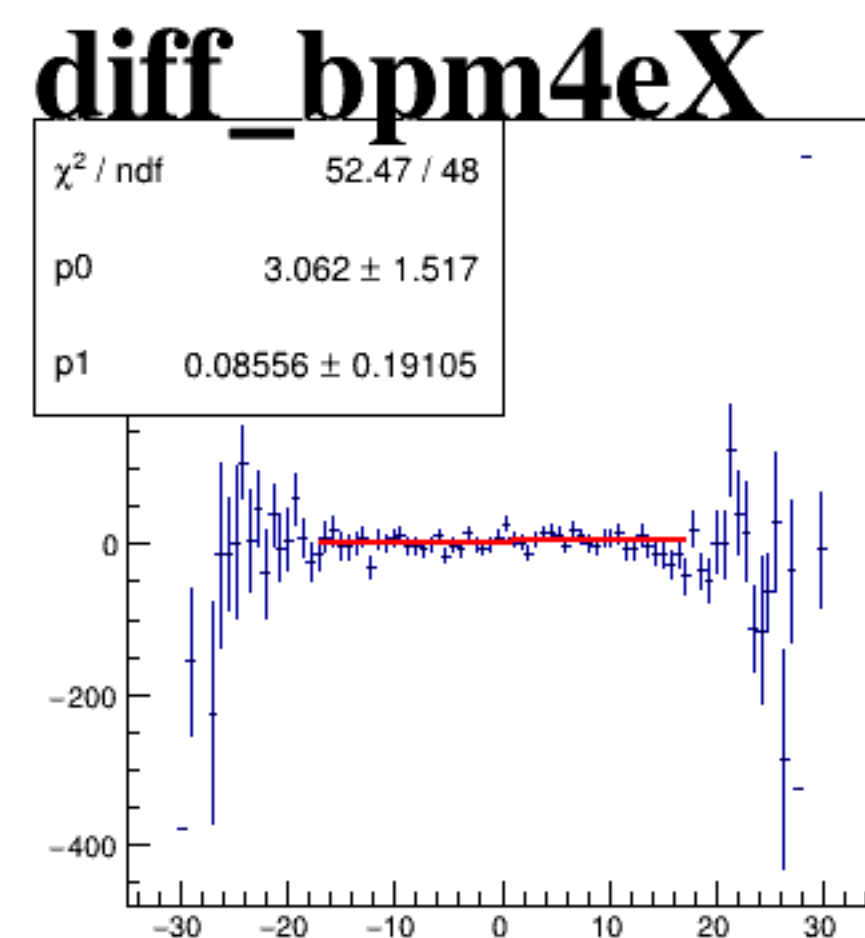
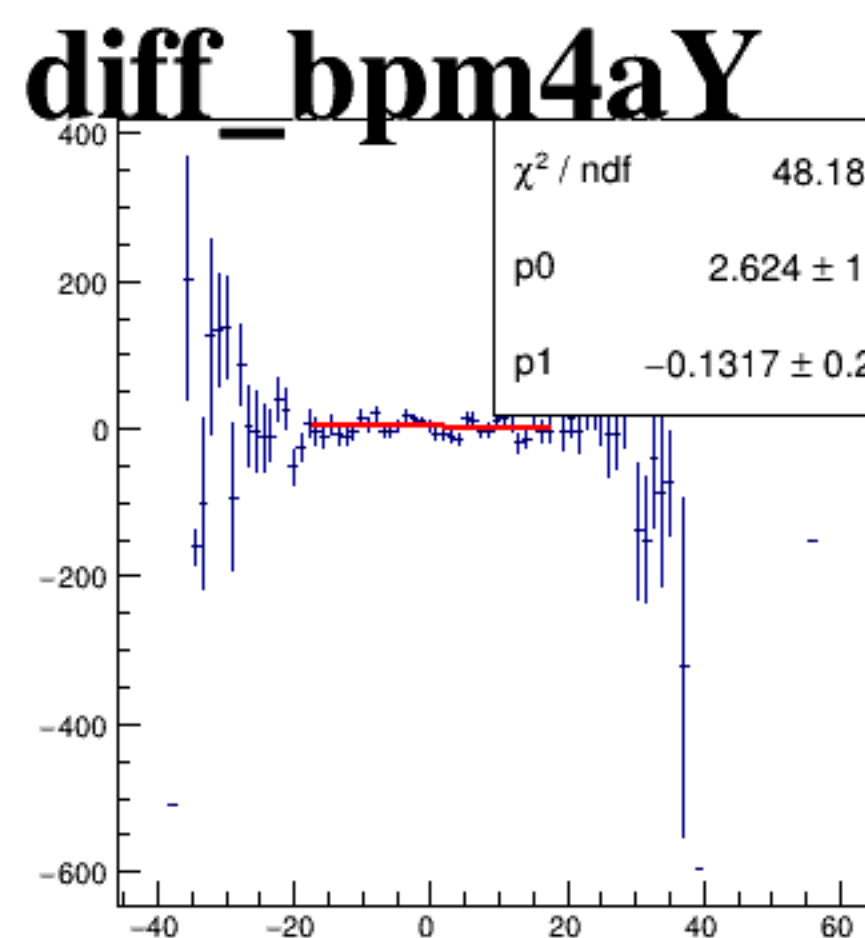
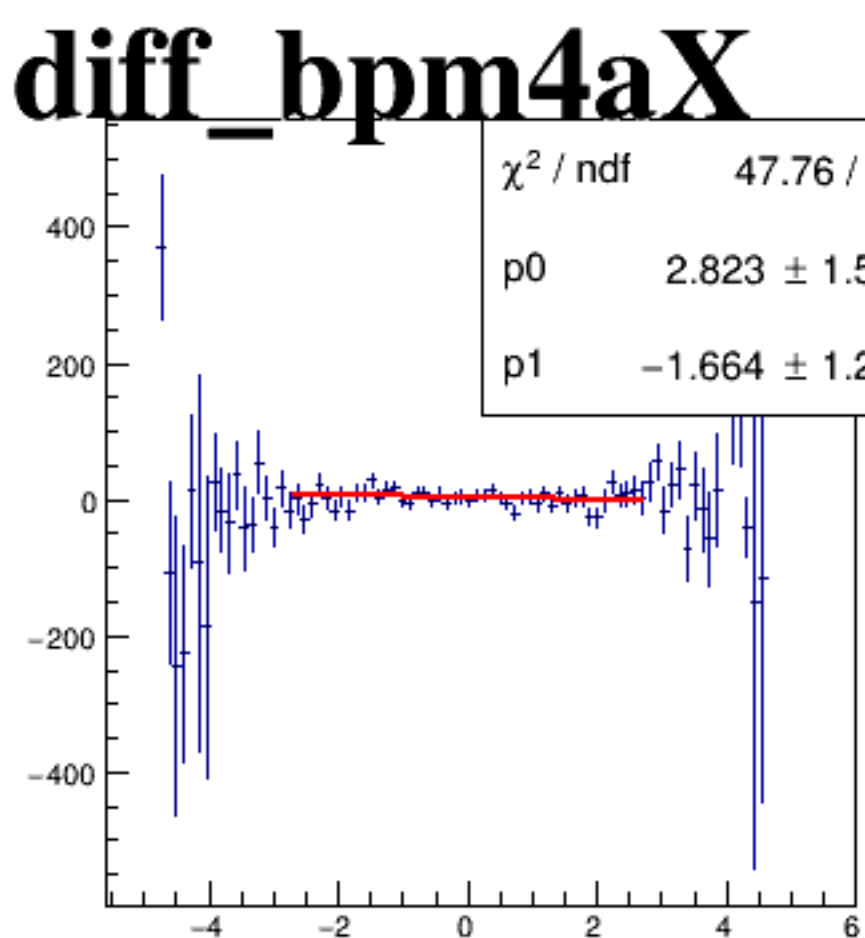
reg_asym_sam1



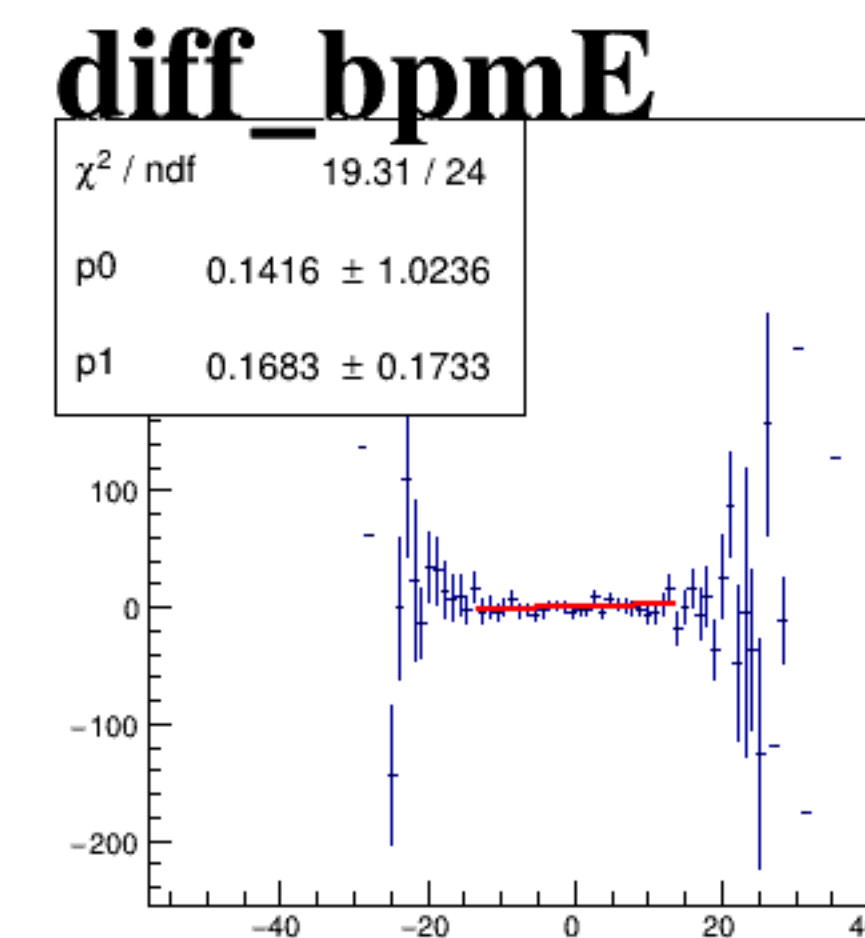
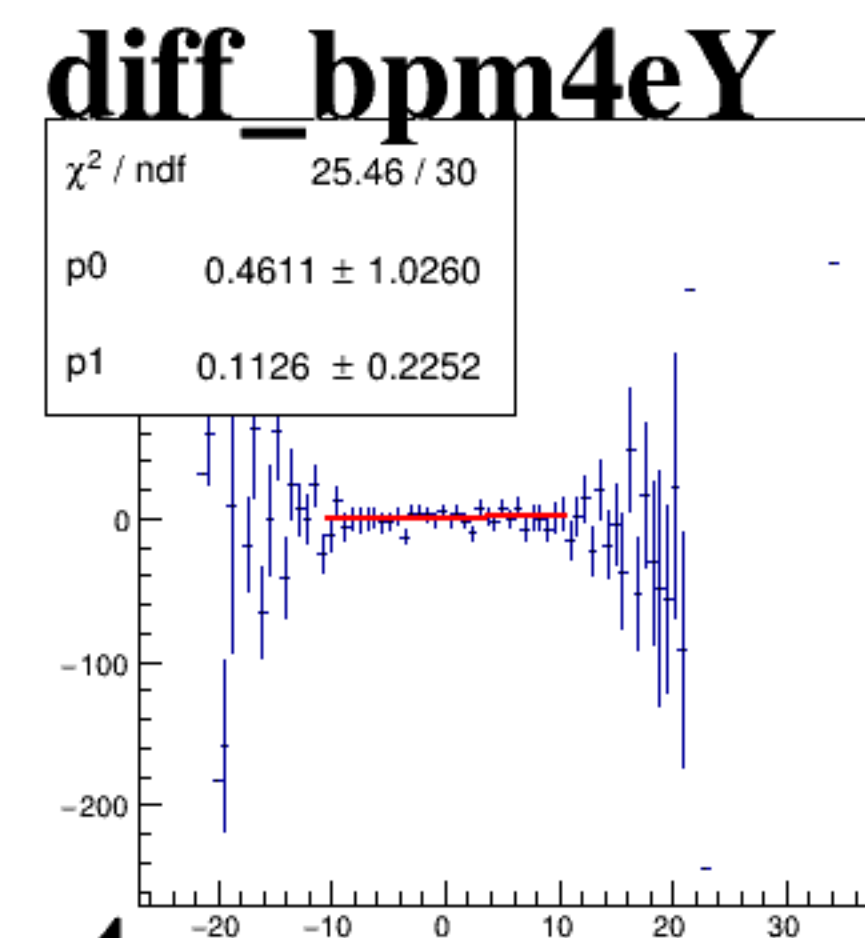
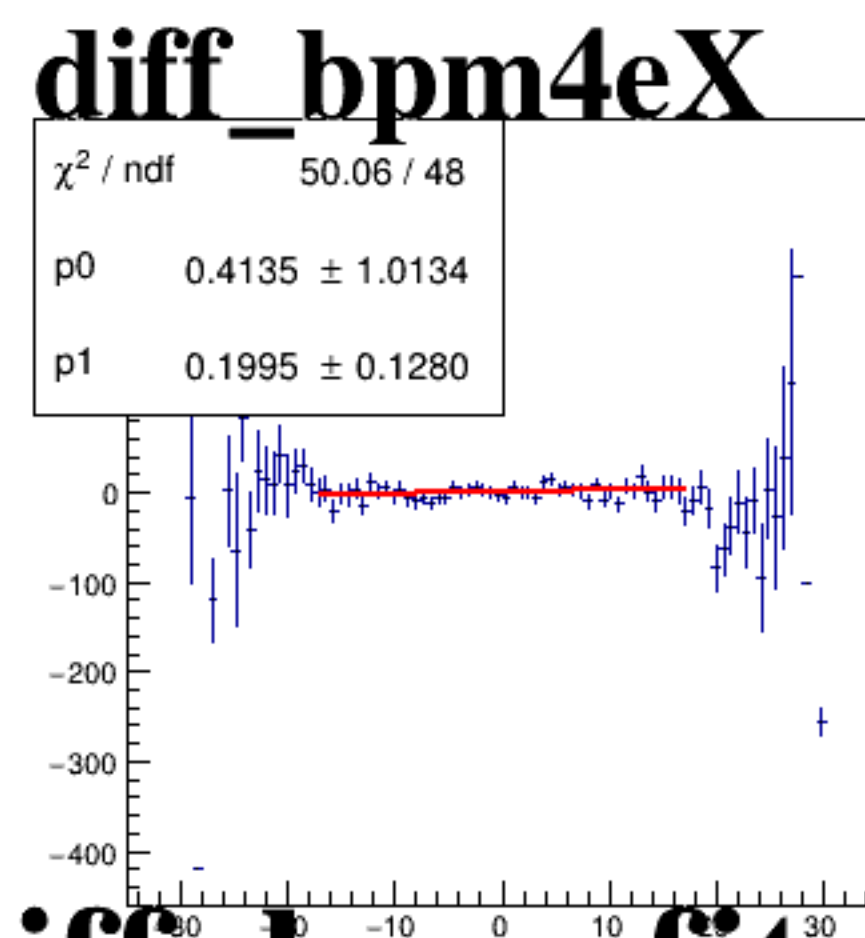
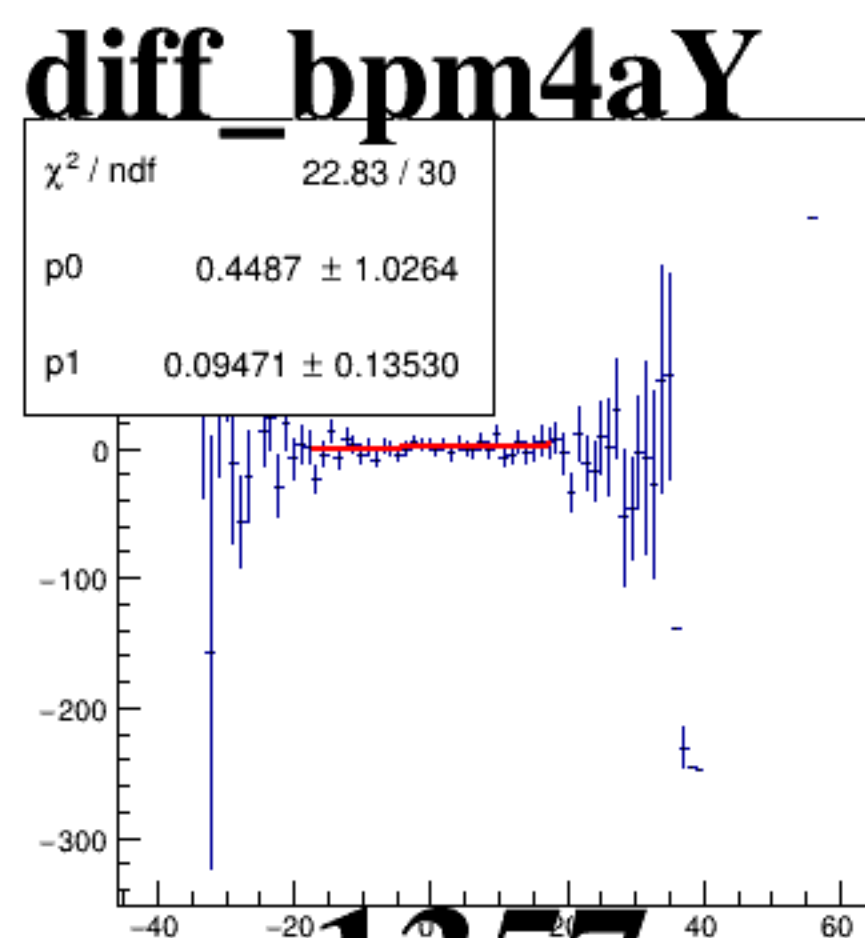
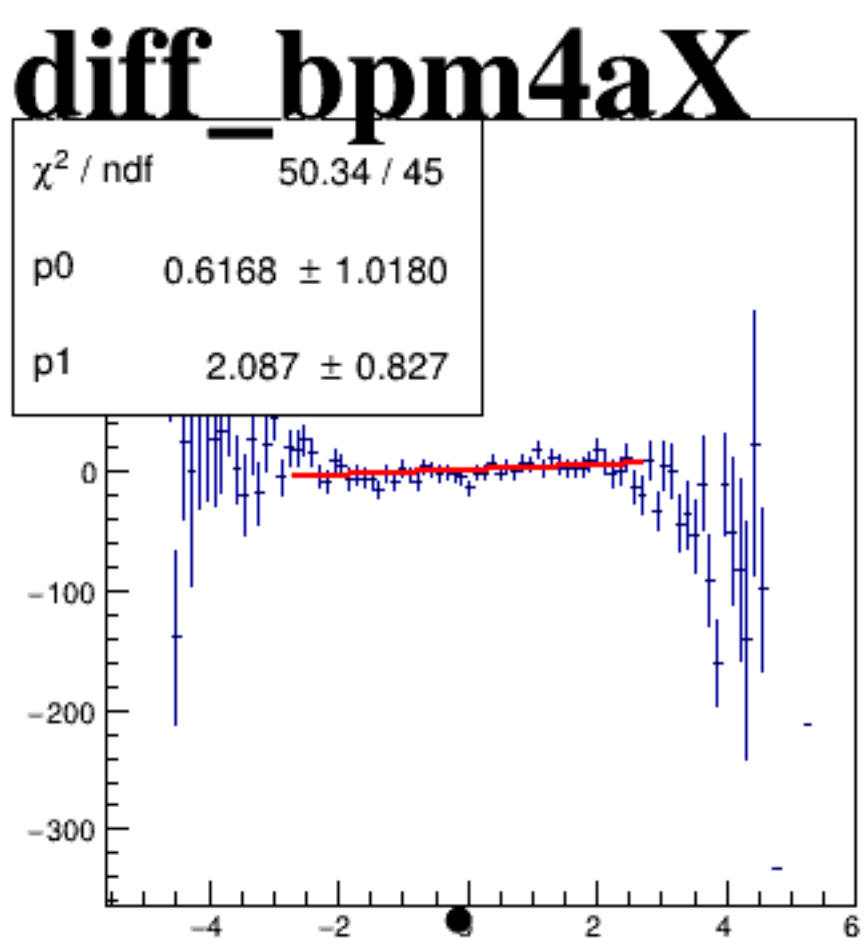
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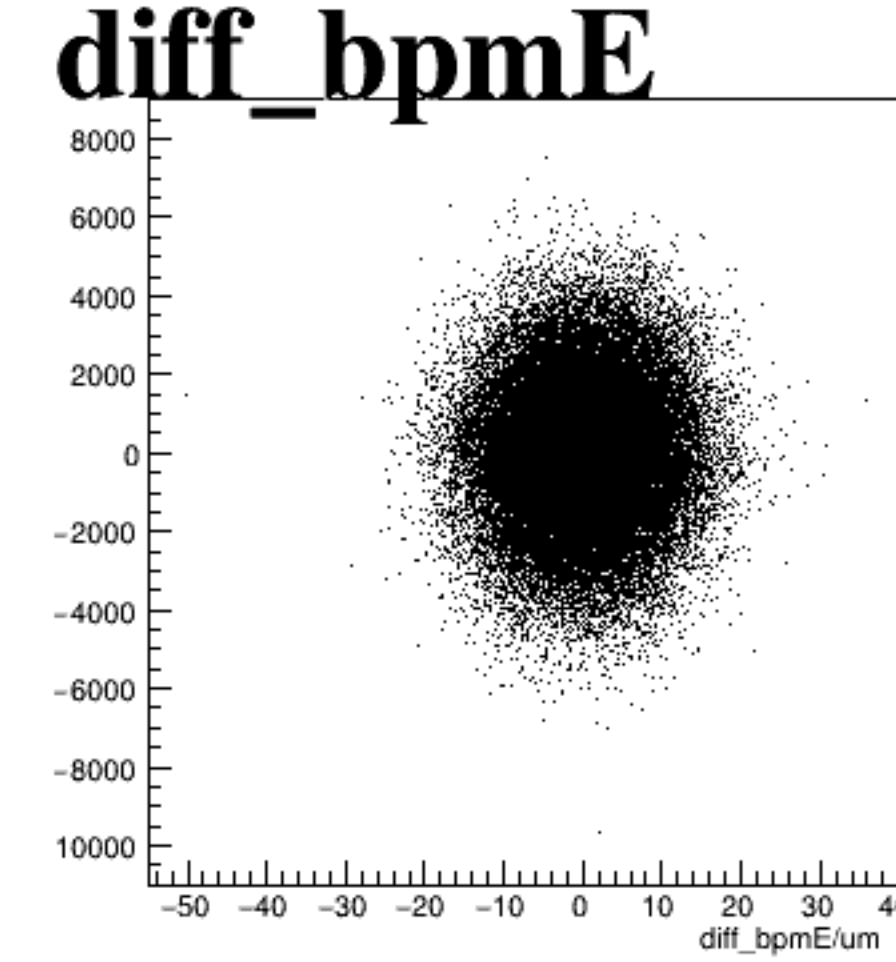
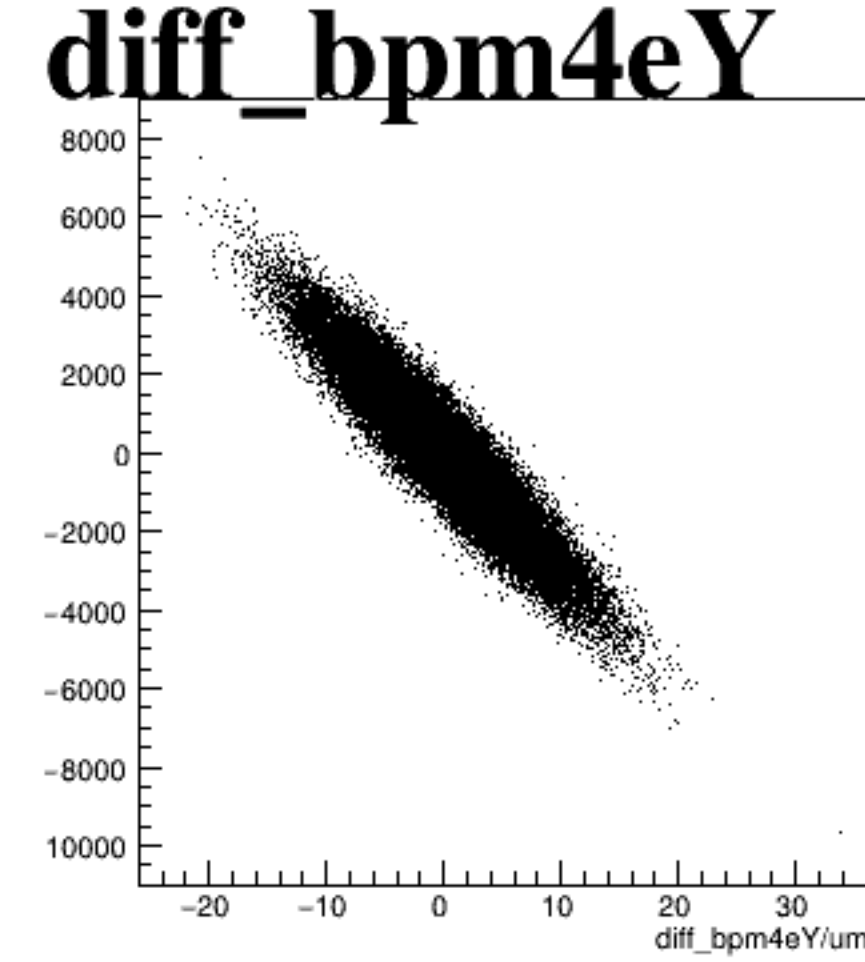
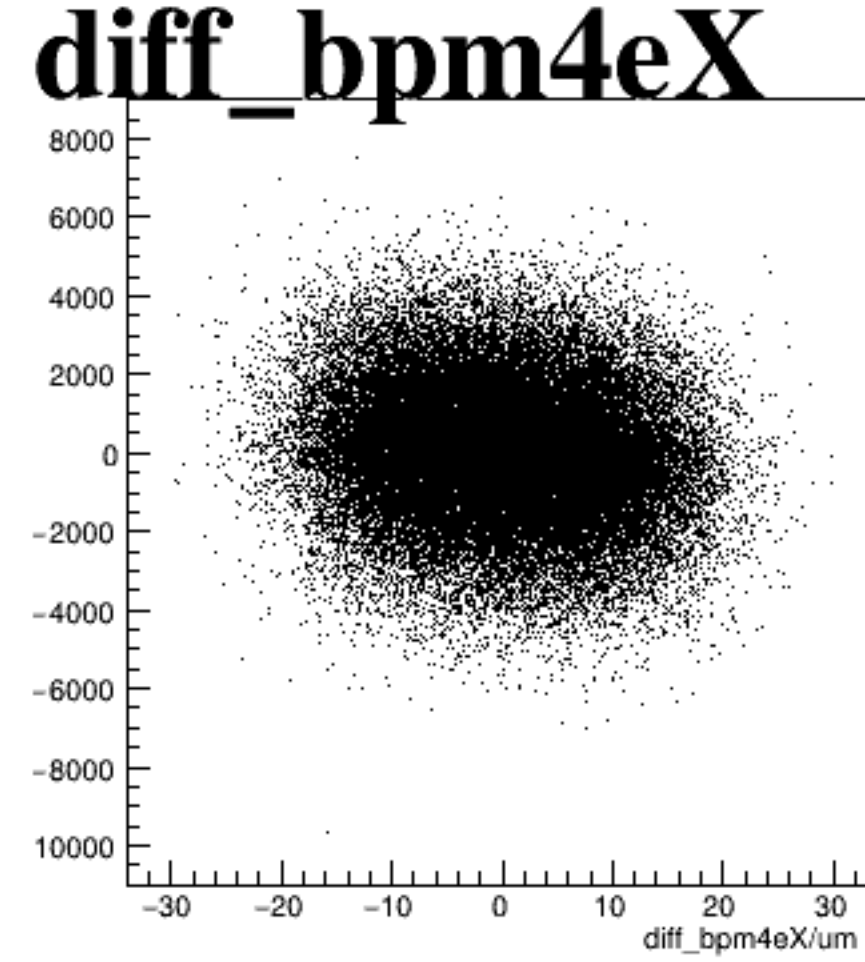
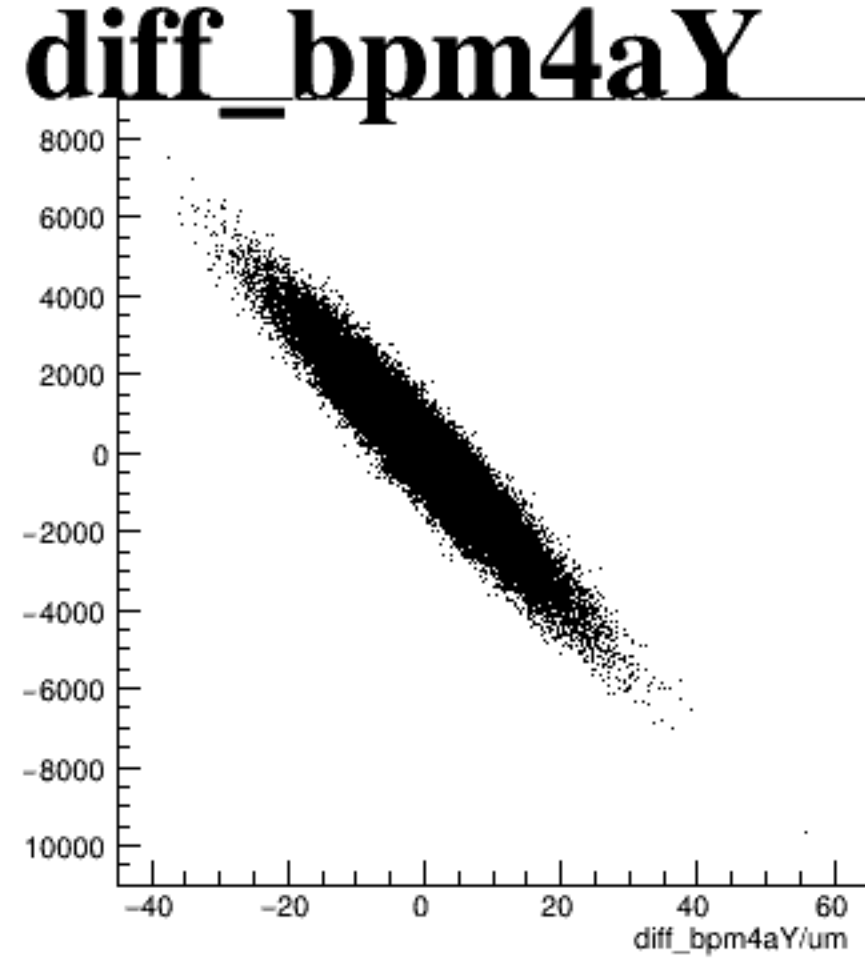
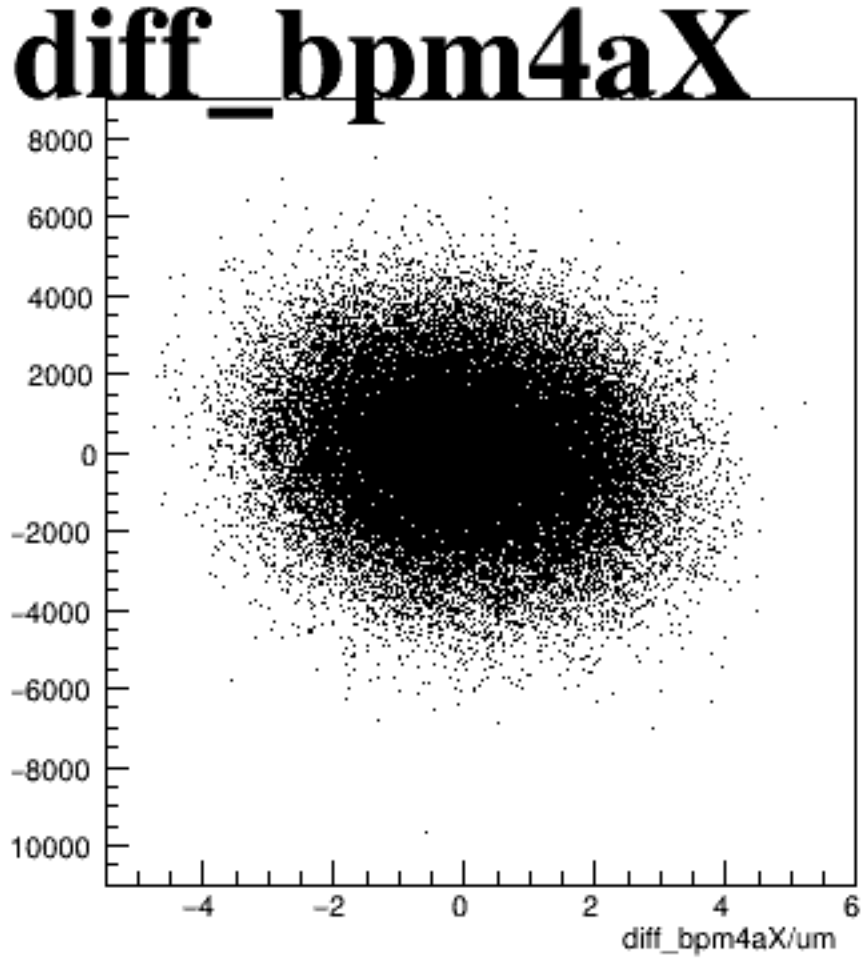
reg_asym_sam5



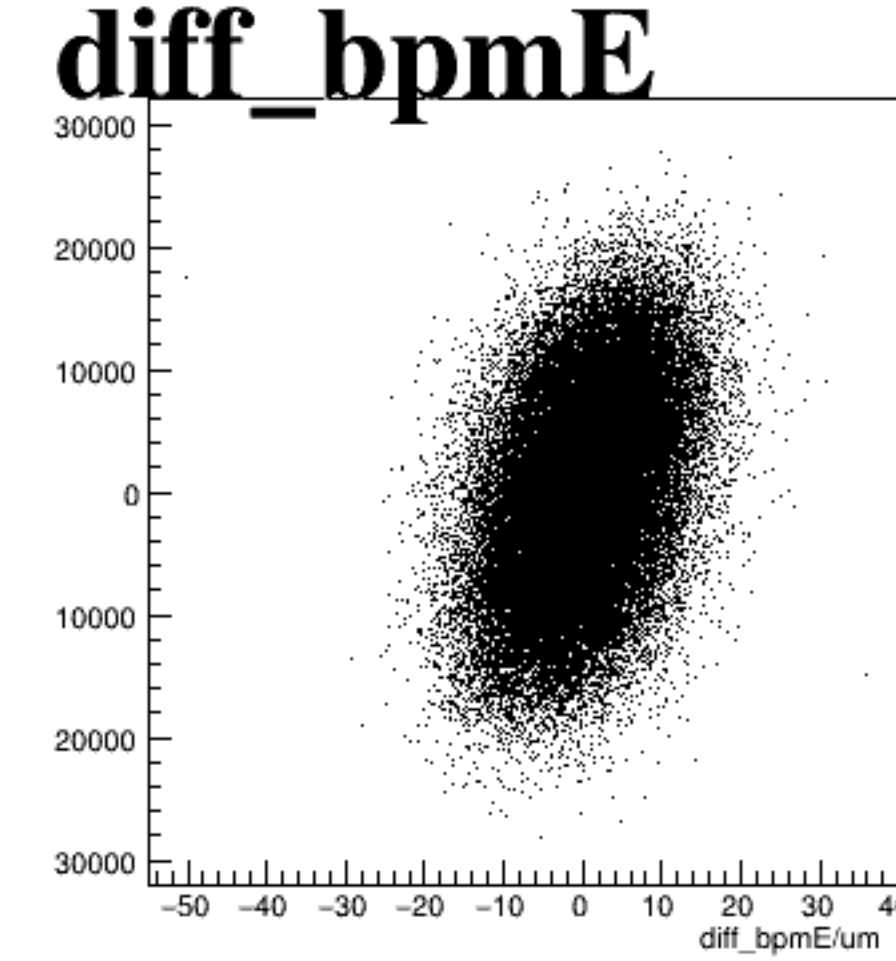
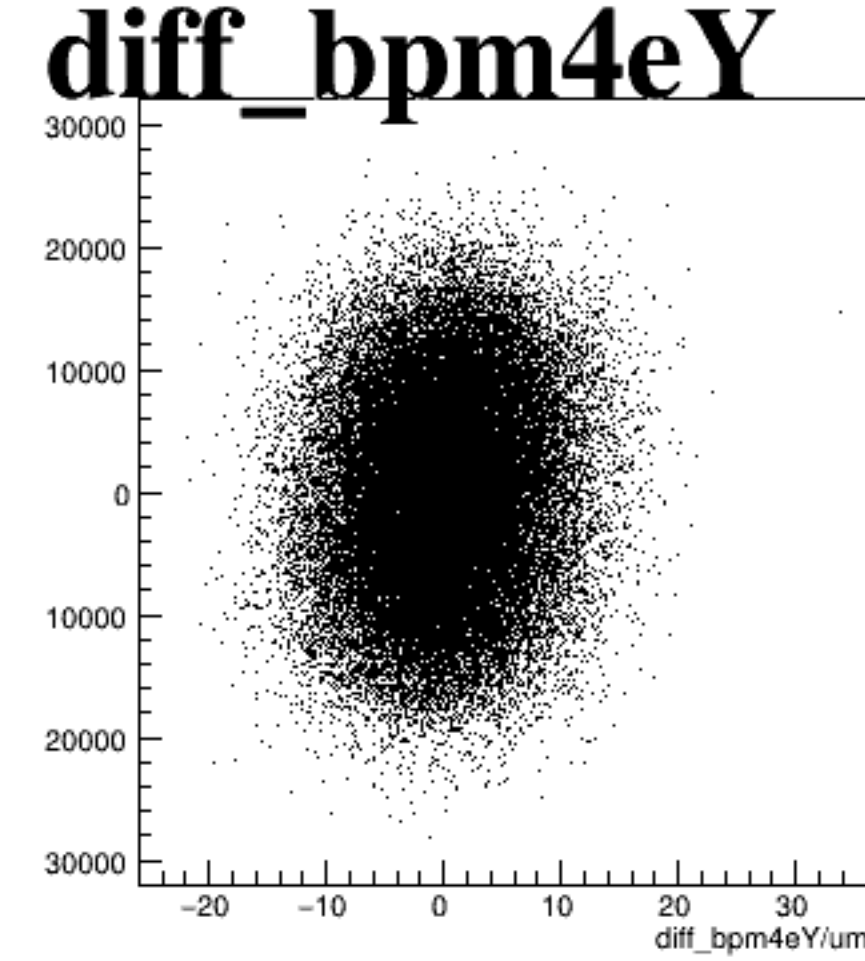
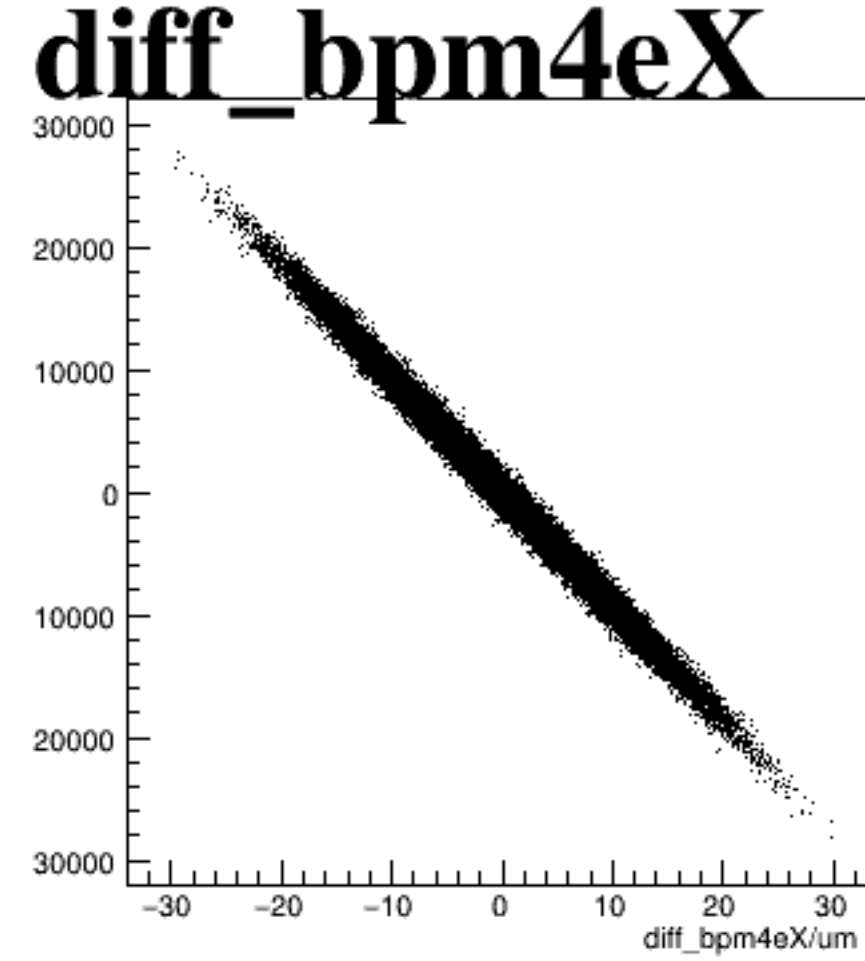
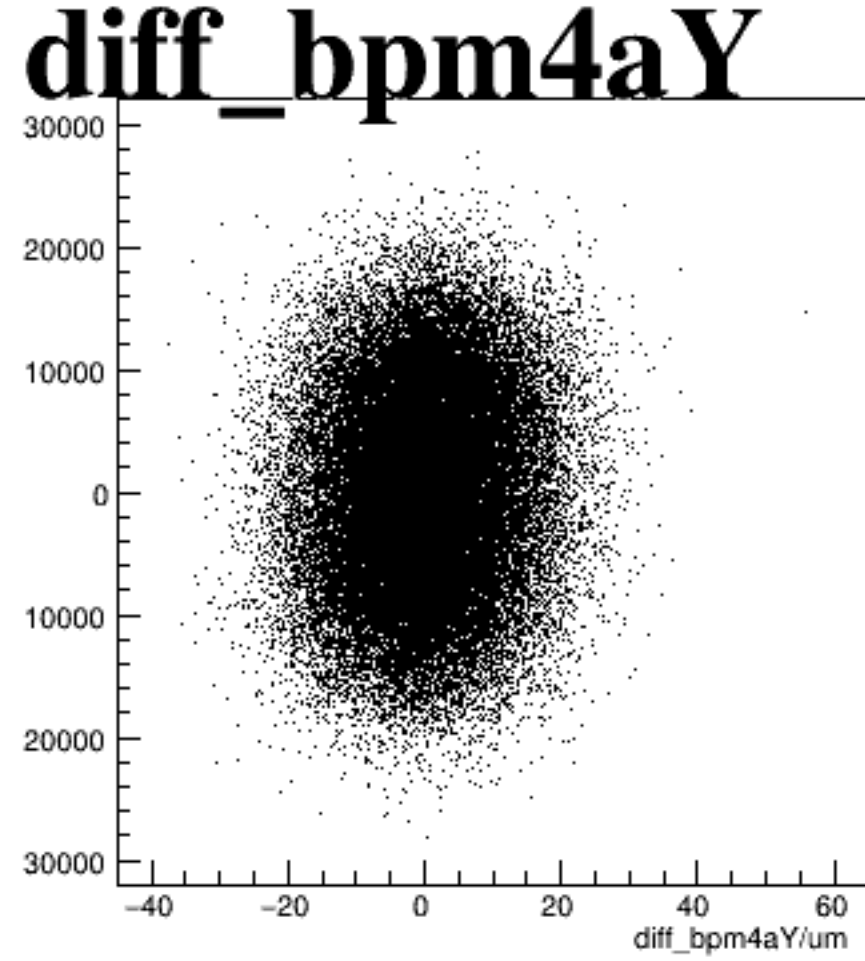
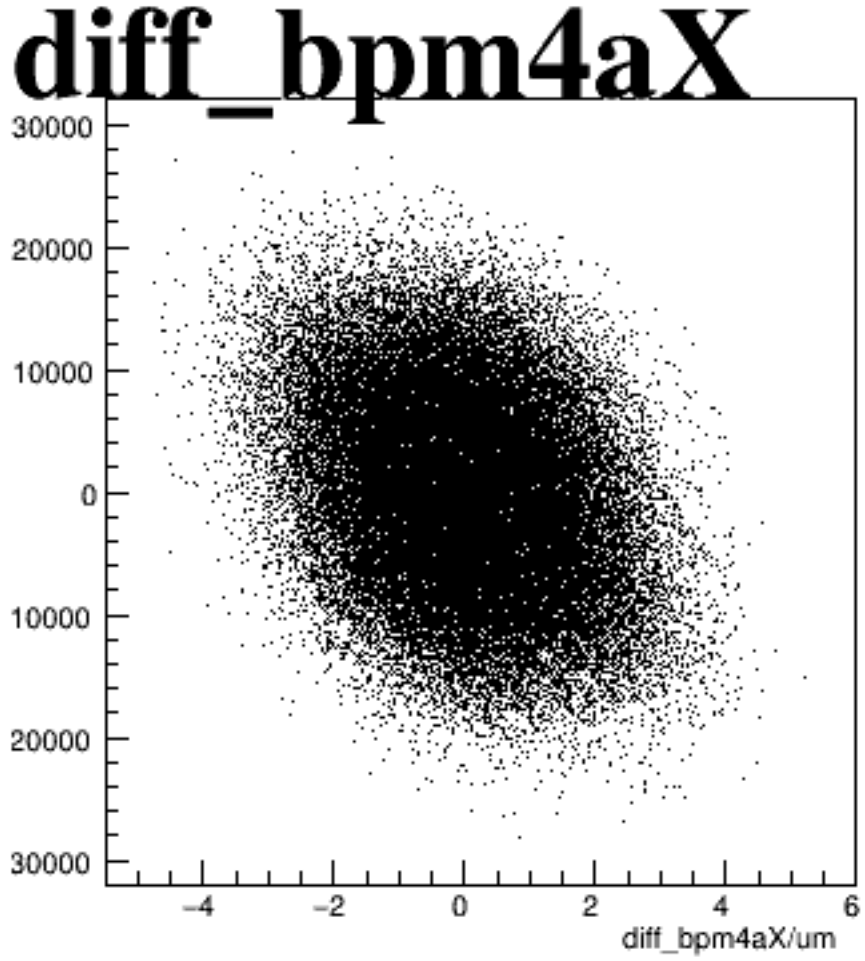
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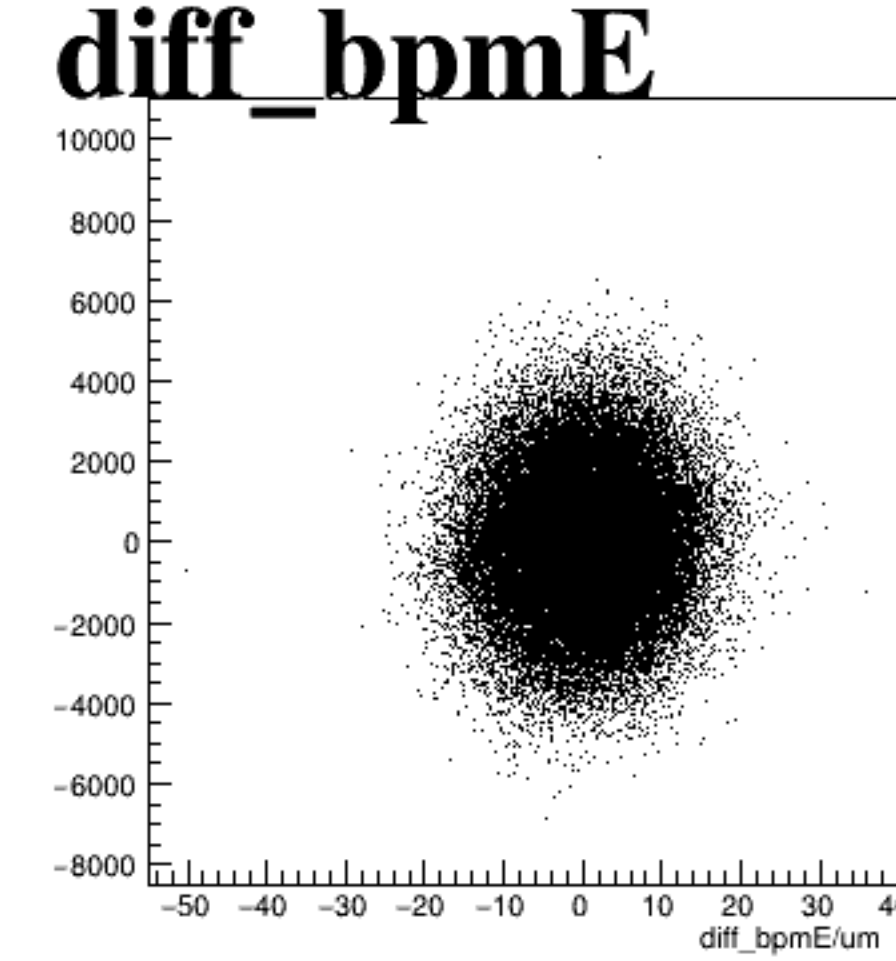
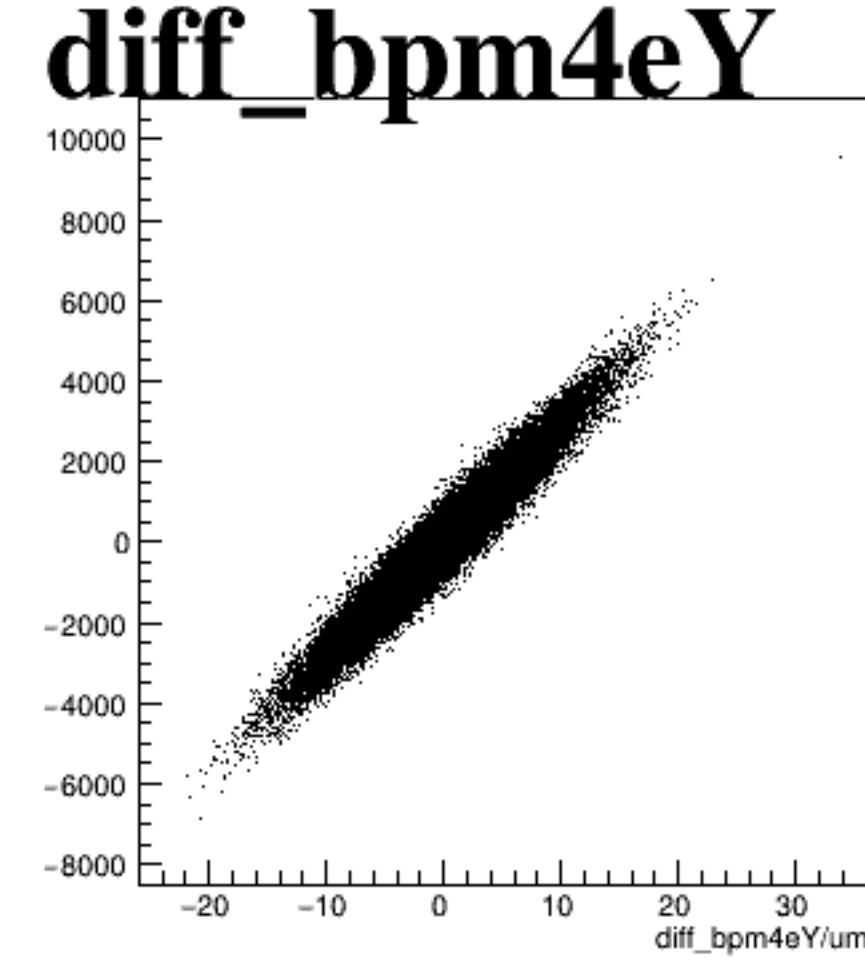
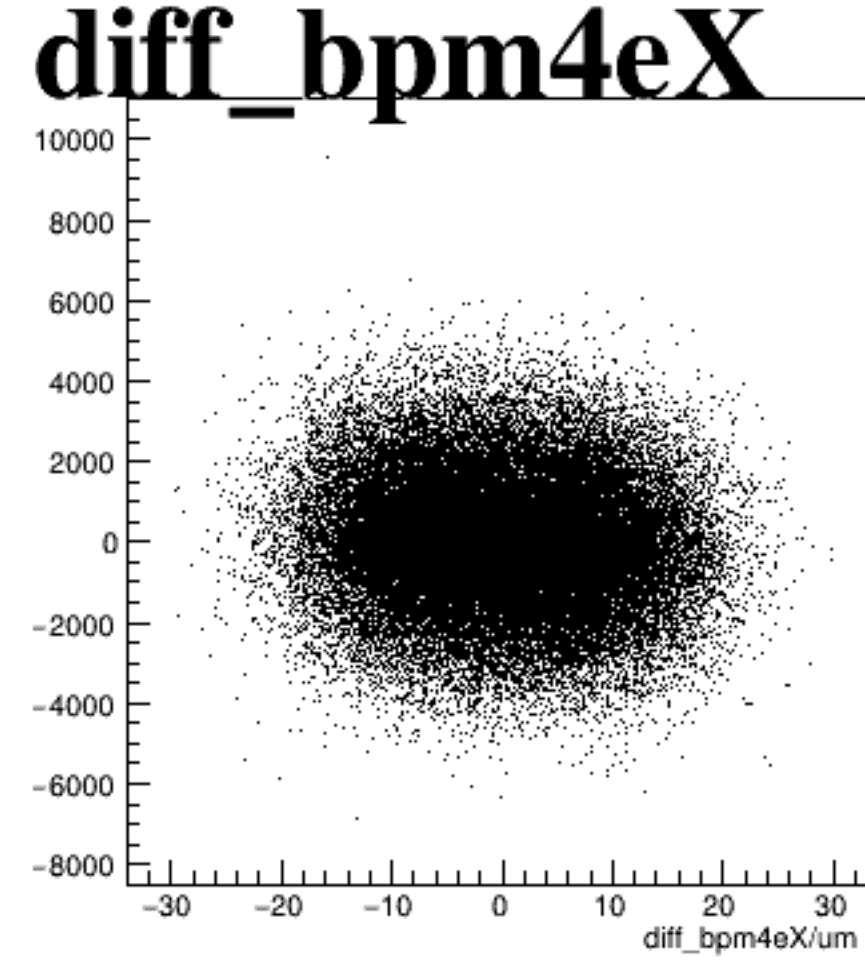
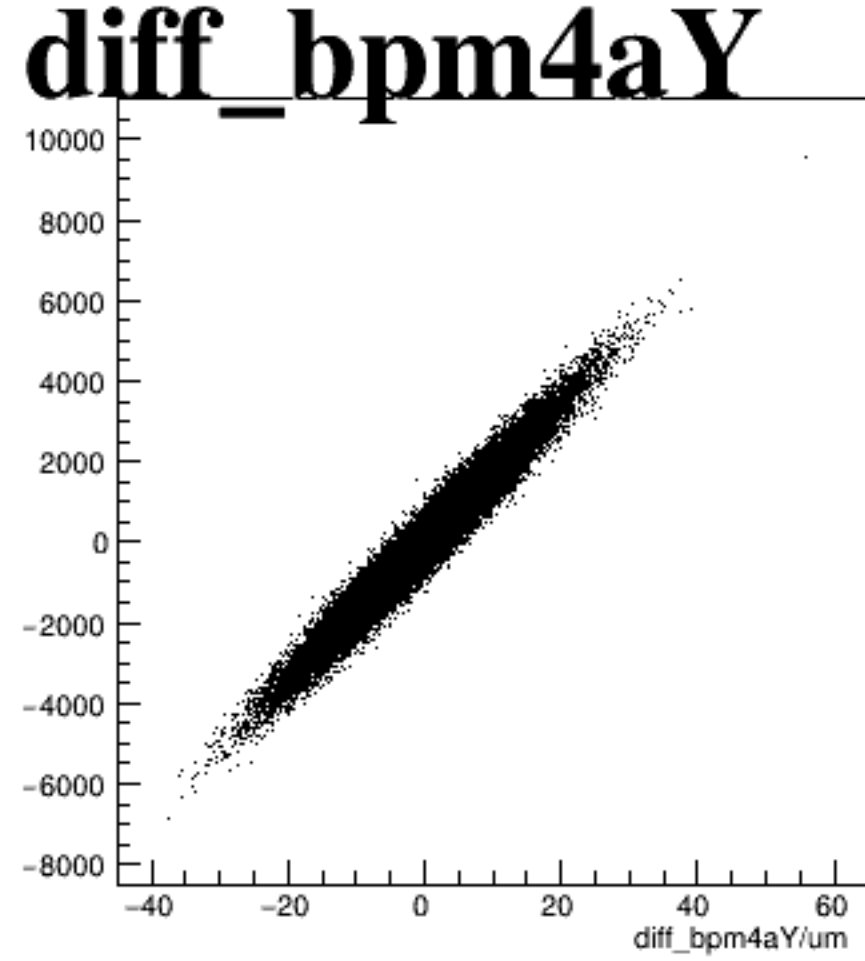
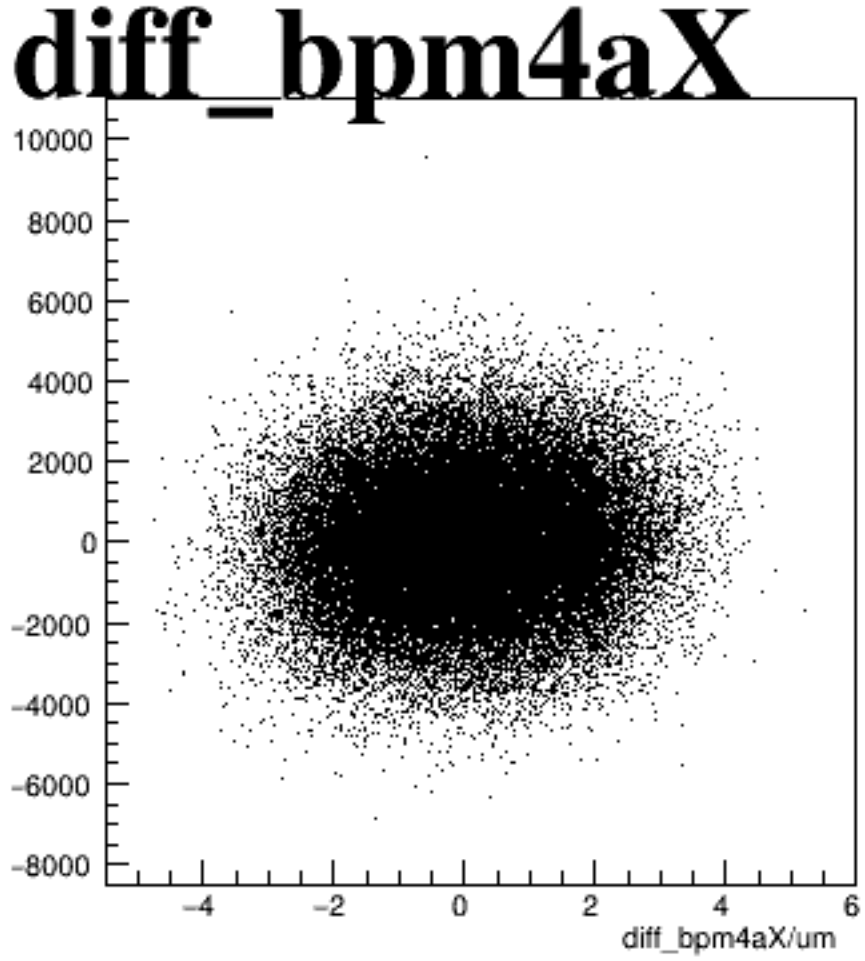
asym_sam1



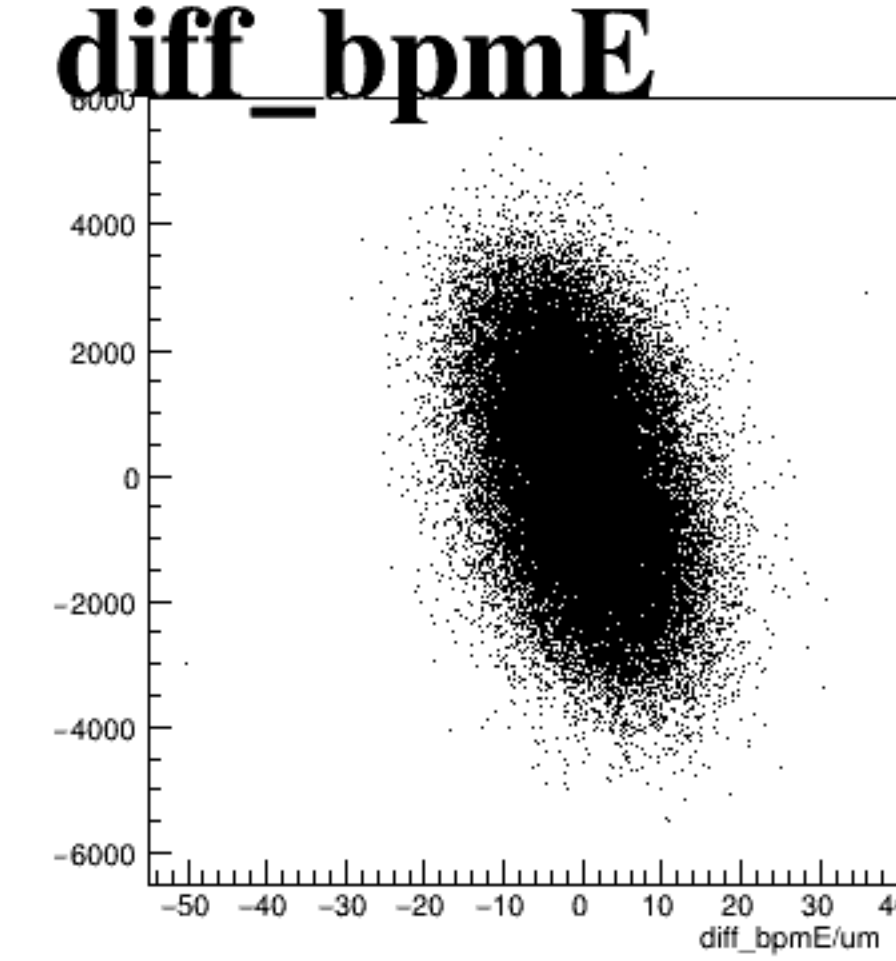
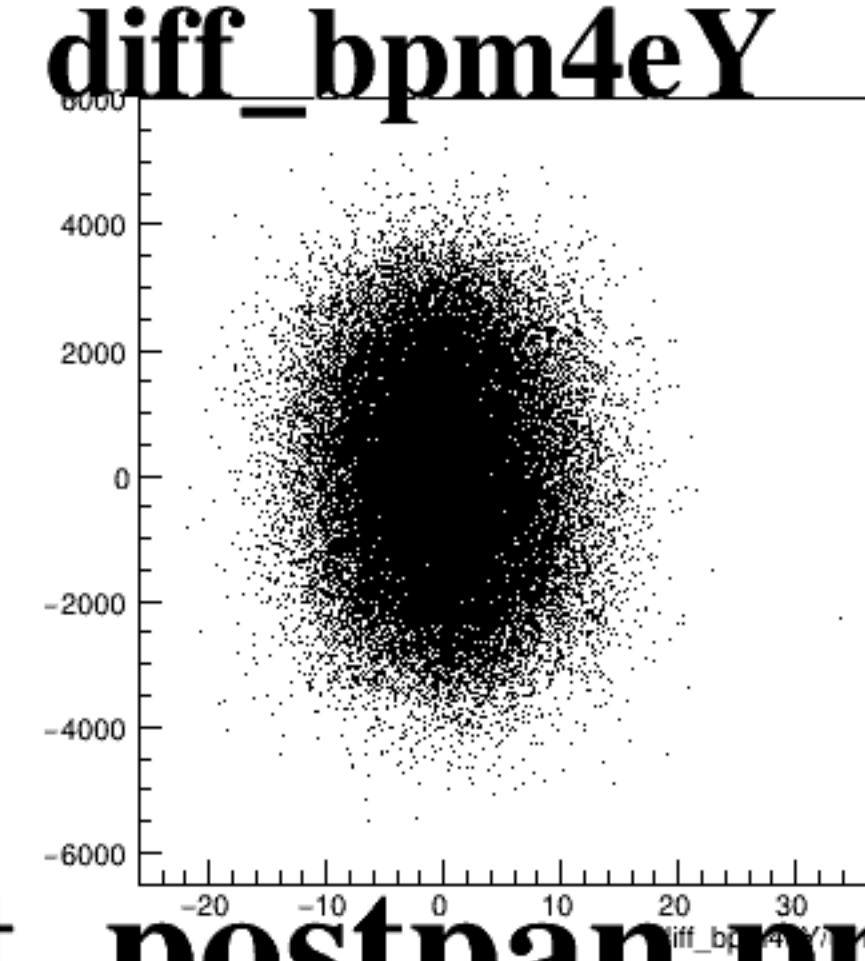
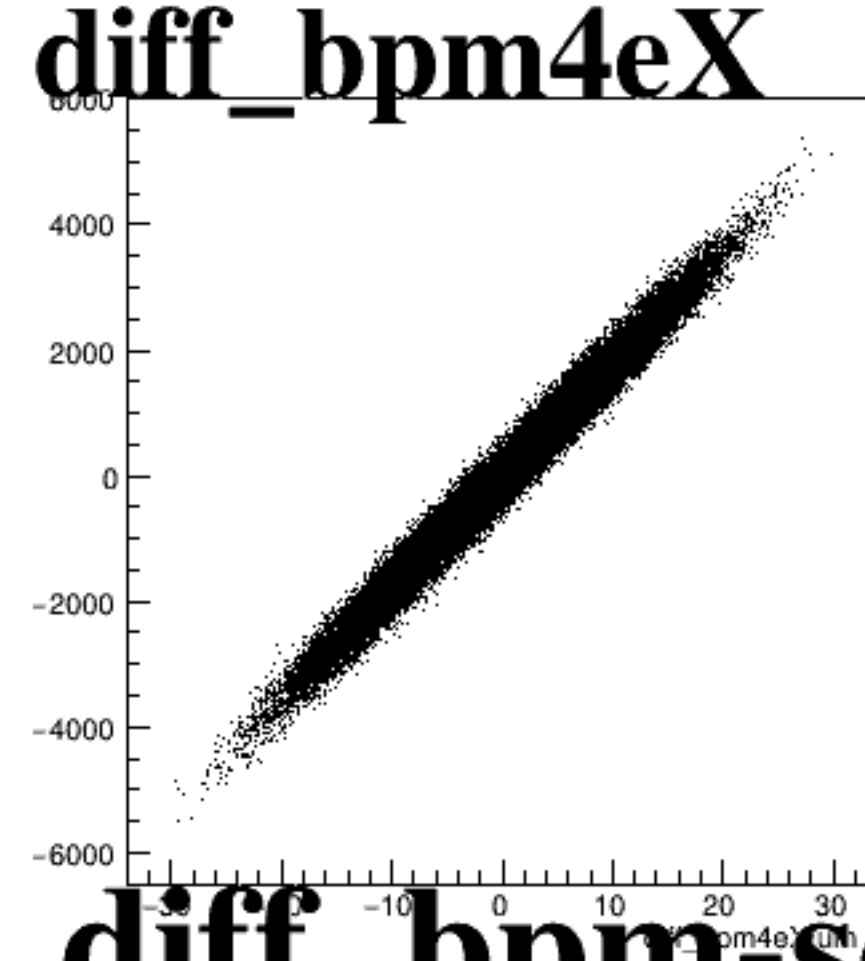
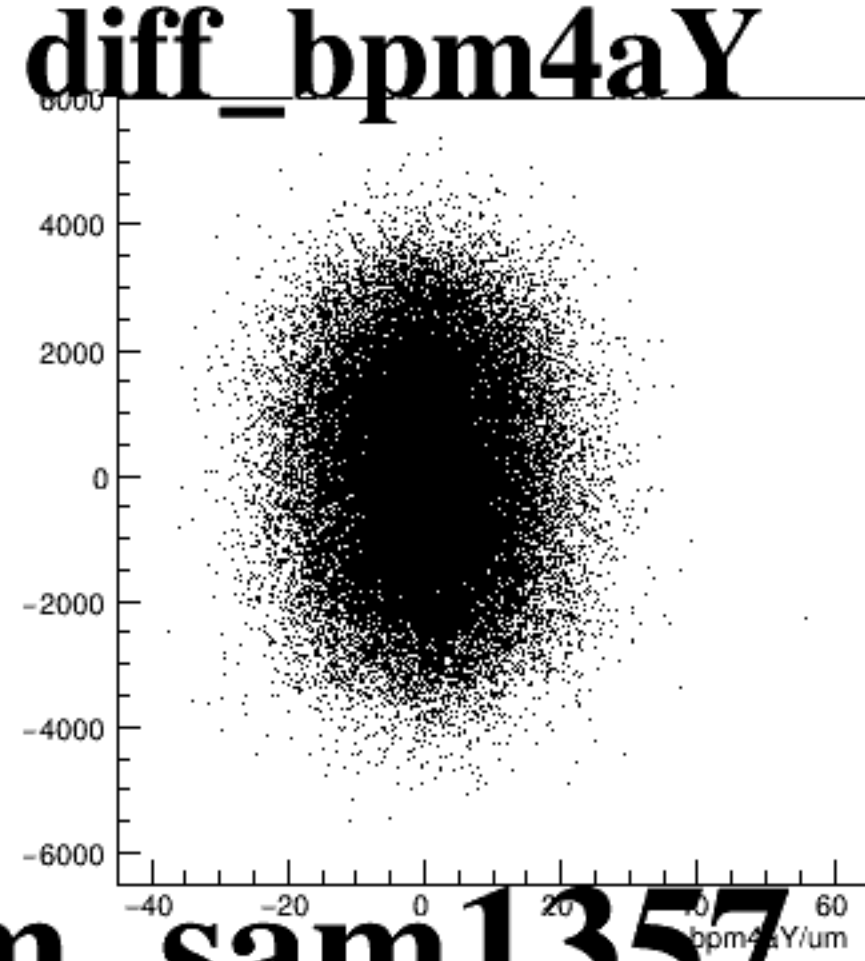
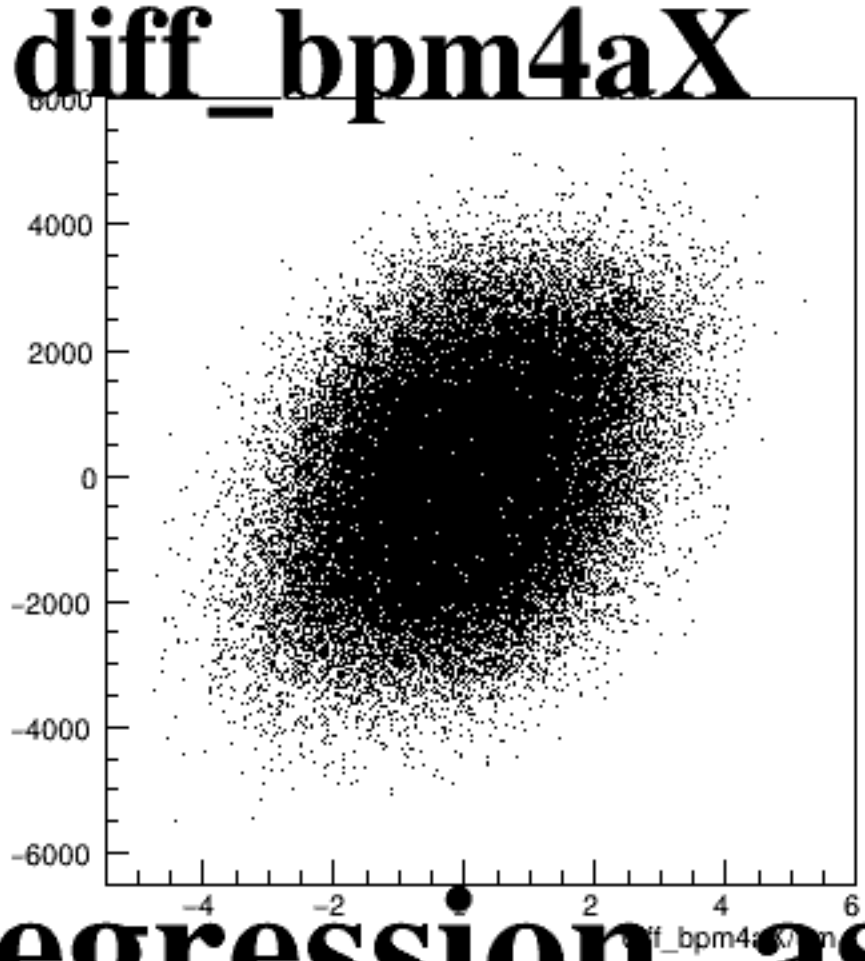
asym_sam3



asym_sam5



asym_sam7



The figure consists of five scatter plots arranged horizontally, each showing the distribution of beam parameters for different beam types. The y-axis for all plots is labeled 'bpm' and ranges from -1500 to 2000. The x-axis for each plot is labeled 'diff' and ranges from -4 to 6, -40 to 60, -30 to 30, -20 to 30, and -50 to 40 respectively. The distributions are roughly circular and centered around zero.